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(54) **Diszubsztituált oktahidropirrolo[3,4-c]pirrolok mint orexin receptor modulátorok**

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(54) **DISUBSTITUTED OCTAHY - DROPYRROLO [3,4-C]PYRROLES AS OREXIN RECEPTOR MODULATORS**

DISUBSTITUIERTE OCTAHY-DROPYRROLO [3,4-C]PYRROLE ALS OREXINREZEPTORMODULATOREN

OCTAHYDROPYRROLO[3,4-C]PYRROLES DISUBSTITUÉS EN TANT QUE MODULATEURS DE RÉCEPTEUR D'OREXINE

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Description

Field of the Invention

[0001] The present invention relates to certain disubstituted octahydropyrrolo[3,4-c]pyrrole compounds, pharmaceutical compositions containing them, methods of making them, and their use for the modulation of the orexin receptor and for the treatment of disease states, disorders, and conditions mediated by orexin receptor activity.

Background of the Invention

[0002] Orexin (or hypocretin) signaling is mediated by two receptors and two peptide agonists. The two orexin peptides (orexin A and orexin B) herein after referred to as orexins, bind to two high affinity receptors, termed orexin-1 and orexin-2 receptors. The orexin-1 receptor is selective in favor of orexin A, while the orexin-2 receptor binds both orexins with similar affinities. The orexins, are cleavage products of the same gene, prepro orexin. In the central nervous system neurons expressing prepro-orexin, the precursor from which orexin is produced, are found in the perifornical nucleus, the dorsal hypothalamus and the lateral hypothalamus (C. Peyron et al., J. Neurosci., 1998, 18(23), 9996-10015). Orexinergic cells in these nuclei project to many areas of the brain, extending rostrally to the olfactory bulbs and caudally to the spinal cord (van den Pol, A.N. et al., J. Neuroscience., 1999, 19(8), 3171-3182).

[0003] The broad CNS distribution of orexin projections and neurons expressing orexin receptors is suggestive of orexin involvement in a number of physiological functions including; feeding, drinking, arousal, stress, reward, metabolism and reproduction (T. Sakurai, Nature Reviews Neuroscience, 2007, 8(3), 171-181).

[0004] The targeted necrosis of cells expressing prepro-orexin suggests the most physiologically important roles of the orexins are likely to be effects on arousal, feeding and metabolism (J. Hara et al., Neuron, 2001, 30, 345-354). A prominent orexin neuronal projection via the vagus nerve probably mediates central orexin effects on cardiac parameters (W.K. Samson et al., Brain Res., 1999, 831, 248-253; T. Shirasaka et al., Am. J. Physiol., 1999, 277, R1780-R1785; C.-T. Chen et al., Am. J. Physiol., 2000, 278, R692-R697), gastric acid secretion and gastric motility (A.L. Kirchgessner and M.-T. Liu, Neuron, 1999, 24, 941-951; N. Takahashi et al., Biochem. Biophys. Res. Commun., 1999, 254, 623-627).

[0005] Several lines of evidence indicate that the orexin system is an important modulator of arousal. Rodents administered orexins intracerebroventricularly spend more time awake (Piper et al., J. Neurosci. 2000, 12, 726-730). Orexin-mediated effects on arousal have been linked to orexin neuronal projections to histaminergic neurons in the tuberomammillary nucleus (TMN) (Yamanaka et al., Biochem. Biophys. Res. Comm. 2002, 290, 1237-1245). TMN neurons express the orexin-2 receptor primarily, and the orexin-1 receptor to a lesser extent. Rodents whose prepro orexin gene has been knocked out, or whose orexigenic neurons have been lesioned, display altered sleep/wake cycles similar to narcolepsy (Chemelli et al., Cell 1999, 98, 437-451; Hara et al., 2001, *supra*). Dog models of narcolepsy have been shown to have mutant or non-functional orexin-2 receptors (Lin et al., Cell 1999, 98, 365-376). Human narcolepsy appears to be linked to deficient orexin signaling, likely related to immune ablation of orexinergic neurons in the lateral hypothalamus (Mignot et al., Am. J. Hum. Genet. 2001, 68: 686-699; Minot & Thorsby, New England J. Med. 2001, 344, 692), or, in rare cases, to mutations in the orexin-2 gene (Peyron et al., Nature Med. 2000, 6, 991-997). The disclosure that rats, dogs and humans treated with the dual orexin-1/2 receptor antagonist, ACT-078573 (Brisbare-Roch et al., Nature Medicine, 2007, 13, 150-155) exhibited decreased alertness together with characteristic clinical and EEG (electroencephalographic) signs of sleep provides evidence to support a role for the orexin system in the regulation of arousal, sleep and wake states. EEG data indicates that orexin-2 may be more important than orexin-1 in the modulation of sleep/wake (P. Malherbe et al., Molecular Pharmacology (2009) 76(3):618-31; C. Dugovic et al., J. Pharmacol. Exp. Ther., 2009, 330(1), 142-151). Disorders of the sleep-wake cycle are therefore likely targets for orexin-2 receptor antagonist therapy. Examples of such disorders include sleep-wake transition disorders, insomnia, restless legs syndrome, jet-lag, disturbed sleep, and sleep disorders secondary to neurological disorders (e.g., manias, depressions, manic depression, schizophrenia, and pain syndromes (e.g., fibromyalgia, neuropathic pain).

[0006] The orexin system also interacts with brain dopamine systems. Intracerebroventricular injections of orexins in mice increase locomotor activity, grooming and stereotypy; these behavioral effects are reversed by administration of D_2 dopamine receptor antagonists (Nakamura et al., Brain Research, 873(1), 181-7). Therefore, orexin-2 modulators may be useful to treat various neurological disorders; e.g., agonists or up-regulators to treat catatonia, antagonists or down-regulators to treat Parkinson's disease, Tourette's syndrome, anxiety, delirium and dementias.

[0007] Recent evidence indicates a role for orexin in the pathogenesis of Alzheimer's disease (Kang et al, Science Express, 2009, 1-10). Brain interstitial fluid levels of amyloid-beta were demonstrated to fluctuate diurnally in both humans and rodents with sleep deprivation in rodents leading to significant increases in brain interstitial fluid levels of amyloid-beta. Infusion of a dual orexin antagonist in rodents suppressed interstitial levels of amyloid-beta and abolished the natural diurnal variation of amyloid-beta. The reduction of interstitial fluid amyloid-beta levels is correlated with reduced amyloid plaque formation, a hallmark of Alzheimer's disease, and consequently the regulation of sleep time could

potentially inhibit amyloid-beta aggregation and slow the progression of Alzheimer's disease.

Orexin neurons project to many regions of the brain associated with reward function (T. Sakurai, *supra*) and research, focusing on animal models of drug intake, reward, and reinstatement, has expanded the link between the orexin system and addiction. A comprehensive set of data suggest that drugs of abuse activate the orexin system, which in turn enhances drug reward or drug seeking (G. Aston-Jones et al., Neuropharmacology, 2009, 56 (Suppl 1) 112-121. Thus interactions between nicotine (J. K. Kane et al., Endocrinology, 2000, 141(10), 3623-3629; J. K. Kane et al., Neurosci. Lett., 2001, 298(1), 1-4), morphine (D. Georgescu, et al., J.Neurosci., 2003, 23(8), 3106-3111) and amphetamine (C. J. Winrow et al., Neuropharmacology, 2010, 58(1),185-94) and the orexin system have been demonstrated. Additional studies from a number of laboratories have demonstrated an important relationship between the Orexin system and ethanol consumption. As examples, ethanol consumption in an alcohol-preferring strain of rat was shown to up regulate Orexin mRNA in the lateral hypothalamus and that an Orexin-1 receptor antagonist reduced operant responding for ethanol (Lawrence, et. al., Br. J. Pharmacol., 2006, 148, 752-759). Treatment with an orexin-1 antagonist has also been shown to decrease operant responding for ethanol (Richards, et. al., Psychopharmacology, 2008, 199 (1), 109-117). Other studies have demonstrated increased Fos activation of orexin neurons following contextual reinstatement to ethanol seeking (Dayas, et. al., Biol. Psychiatry, 2008, 63 (2), 152-157 and Hamlin, et. al., Neuroscience, 2007, 146, 525-536). Studies have also shown increased ethanol consumption following Orexin infusion into the paraventricular nucleus of the hypothalamus or in the lateral hypothalamus (Schneider, et. al., Alcohol. Clin. Exp. Res., 2007, 31(11), 1858-1865). These studies provide evidence that modulation of the Orexin system effects alcohol preference and therefore Orexin receptor antagonists are likely to be useful for the treatment of alcoholism.

[0008] Orexins and their receptors have been found in both the myenteric and submucosal plexus of the enteric nervous system, where orexins have been shown to increase motility *in vitro* (Kirchgessner & Liu, Neuron 1999, 24, 941-951) and to stimulate gastric acid secretion *in vitro* (Takahashi et al., Biochem. Biophys. Res. Comm. 1999, 254, 623-627). Orexin mediated effects on the gut may be driven by a projection via the vagus nerve (van den Pol, 1999, *supra*), as vagotomy or atropine prevent the effect of an intracerebroventricular injection of orexin on gastric acid secretion (Takahashi et al., 1999, *supra*). Orexin receptor antagonists or other down-regulators of orexin receptor-mediated systems are therefore potential treatments for ulcers, irritable bowel syndrome, diarrhea and gastroesophageal reflux.

Body weight may also be affected by orexin-mediated regulation of appetite and metabolism (T. Sakurai et al., Cell, 1998, 92(4), 573-585; T. Sakurai, Reg. Pept., 1999, 85(1), 25-30). Some effects of orexin on metabolism and appetite may be mediated in the gut, where, as mentioned, orexins alter gastric motility and gastric acid secretion. Orexin receptor antagonists therefore are likely to be useful in treatment of overweight or obesity and conditions related to overweight or obesity, such as insulin resistance, type II diabetes, hyperlipidemia, gallstones, angina, hypertension, breathlessness, tachycardia, infertility, sleep apnea, back and joint pain, varicose veins and osteoarthritis. Conversely, orexin receptor agonists are likely to be useful in treatment of underweight and related conditions such as hypotension, bradycardia, amenorrhea and related infertility, and eating disorders such as anorexia and bulimia.

[0009] Intracerebroventricularly administered orexins have been shown to increase mean arterial pressure and heart rate in freely moving (awake) animals (Samson et al., Brain Res. 1999, 831, 248-253; Shirasaka et al., Am. J. Physiol. 1999, 277, R1780-R1785) and in urethane-anesthetized animals (Chen et al., Am. J. Physiol. 2000, 278, R692-R697), with similar results. Orexin receptor agonists may therefore be candidates for treatment of hypotension, bradycardia and heart failure related thereto, while orexin receptor antagonists may be useful for treatment of hypertension, tachycardia and other arrhythmias, angina pectoris and acute heart failure.

[0010] From the foregoing discussion, it can be seen that the identification of orexin receptor modulators, in one embodiment modulators of the orexin-2 receptor, will be of great advantage in the development of therapeutic agents for the treatment of a wide variety of disorders that are mediated through these receptor systems.

[0011] Citation of a reference herein shall not be construed as an admission that such reference is prior art to the present invention.

[0012] Various small-molecule orexin receptor modulators have been reported e.g., N-aroyl cyclic amine derivatives (International Publication No. WO2003002561, January 9, 3003), ethylene diamine derivatives (International Publication No. WO2003051872, June 26, 2003), sulfonylamino-acetic acid derivatives (International Publication No. WO2004033418, April 22, 2004), *N*-aryl acetyl cyclic amine derivatives (International Publication No. WO2004041791, May 21, 2004), diazepan derivatives (International Publication No. WO2007126935, November 8, 2007), amidoethylthioether derivatives (International Publication No. WO2007126934, November 8, 2007), 2-substituted proline bis-amide derivatives (International Publication No. WO2008008551, January 17, 2008), bridged diazepan derivatives (International Publication No. WO2008008517, January 17, 2008), substituted diazepan derivatives (International Publication No. WO2008008518, January 17, 2008; US20080132490, WO2009058238), oxo bridged diazepan derivatives (International Publication No. WO2008143856, November 27, 2008), 1,2-diamido ethylene derivatives (International Publication No. WO2009022311, February 19, 2009), heteroaryl derivatives (International Publication No. WO20090163485, June 25, 2009), methyl substituted piperidinyl derivatives (International Publication No. WO2009124956, October 15, 2009), N,N-disubstituted-1,4-diazepane derivatives (Cox et al, Bioorganic & Medicinal Chemistry Letters, 2009, 19(11), 2997-3001),

Orexin /Hypocretin receptor ligands (Boss, et al., Journal of Medicinal Chemistry, 2009, 52(4), 891-903) 3,9-diazabicyclo[4.2.1]nonanes (Coleman et al, Bioorganic & Medicinal ChemistryLetters, 2010, 20(14), 4201-4205), the dual orexin receptor antagonist, [(7R)-4-(5-Chloro-1,3-benzoxazol-2-yl)-7-methyl-1,4-diazepan-1-yl][5-methyl-2-(2H-1,2,3-triazol-2-yl)phenyl]methanone, (Cox, et. al., Journal of Medicinal Chemistry, 2010 53(14) 5320-5332), pyridazine carboxamide derivatives (International Publication No. WO2010051238), 2,5-disubstituted benzamide derivatives (International Publication No WO2010051237, May 6, 2010), isonicotinamides (International Publication No WO2010051236), heterocyclylbenzoylpiperazines derivatives (International Publication No WO201048012), substituted diazepane derivatives (International Publication No WO2010048017), substituted pyrrolidine derivatives (International Publication No WO2010048014), triazolylbenzoylpiperidine derivatives (International Publication No WO2010048010), triazolylbenzoylmorpholine derivatives (WO2010048013), conformationally restrained N,N disubstituted 1,4-diazapane derivatives (Coleman et al, Bioorganic & Medicinal Chemistry Letters, 2010, 20(7), 2311-2315), tripyridyl carboxamide derivatives (International Publication No WO2010017260), imidazopyridylmethyl substituted piperidine derivatives (International Publication No WO2010072722), imidazopyrazine substituted piperidine derivatives (US2010160344, June 24, 2010; US20100160345, June 24, 2010; International Publication No WO2010060472, June 3, 2010), N-{[(1R,4S,6R)-3-(2-pyridinylcarbonyl)-3-azabicyclo[4.1.0]hept-4-yl]methyl}-2-heteroarylamine derivatives (International Publication No WO2010063663), N-{[(1S,4S,6S)-3-(2-pyridinylcarbonyl)-3-azabicyclo[4.1.0]hept-4-yl]methyl}-2-heteroarylamine derivatives (International Publication No WO2010063662), imidazopyrimidine derivatives (International Publication No WO2010060471), and imidazopyrazine derivatives (International Publication No WO2010060470). There remains a need, however, for potent orexin receptor modulators with desirable pharmaceutical properties.

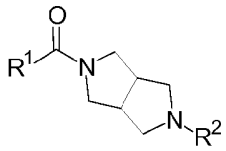
[0013] Substituted diaza-bicyclic compounds have been reported as active central nervous system agents (International Publication No. WO2001081347, November 1, 2001; US2002/0019388, February 14, 2002), α7 acetylcholine receptor modulators (US2005/101602, May 12, 2005; US2005/0065178, March 24, 2005 and Frost et al, Journal of Medicinal Chemistry, 2006, 49(26), 7843-7853), proline transporter inhibitors for the treatment of cognitive impairment (WO2008067121, June 5, 2008) and for improving cognition (WO 2006 124897, November 23, 2006 and US20060258672, November 16, 2006), as androgen receptor ligands for the treatment of androgen receptor associated conditions including cancer (WO2009081197, July 2, 2009), and as histone deacetylase inhibitors for the treatment of cancers, neurodegenerative diseases and autoimmune diseases (WO20060123121, November 23, 2006).

[0014] WO2009/037394 and WO2009/016286 disclose hexahydropyrrolo[3,4-c]pyrroles for use in the treatment of various disorders.

SUMMARY OF THE INVENTION

[0015] Certain disubstituted octahydropyrrolo[3,4-c]pyrrole derivatives have been found to have orexin-modulating activity. Thus, the invention is directed to the general and preferred embodiments defined, respectively, by the independent and dependent claims appended hereto, which are incorporated by reference herein.

[0016] In one general aspect, the invention is directed to a chemical entity of Formula (I):



Formula (I)

wherein:

R^1 is a member selected from the group consisting of:

A) phenyl substituted or unsubstituted with one or two R^a members, and substituted in the *ortho* position with R^b;
R^a is independently selected from the group consisting of: -H, halo, - C_{1-4}alkyl, -C_{1-4}alkoxy, and -NO_2, wherein two adjacent R^a members may come together to form a six membered aromatic ring;
R^b is a member selected from the group consisting of:

a) halo, -C_{1-4}alkoxy, -C_{1-4}alkyl,-CF_3, -OCF_3, or -CN;
b) 5-membered heteroaryl ring containing one oxygen or one sulfur members;
c) 5-6 membered heteroaryl ring containing one, two or three nitrogen members, optionally containing one oxygen member, substituted or unsubstituted with halo or-C_{1-4}alkyl; and
d) phenyl substituted or unsubstituted with halo, -CH_3, or -CF_3;

B) pyridine substituted or unsubstituted with one or two R^c members and substituted with R^d, wherein R^d is positioned adjacent to the point of attachment by R^1;
R^c is C_{1-4}alkyl;
R^d is a member selected from the group consisting of:

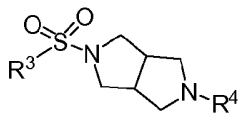
a) 5-6 membered heteroaryl ring selected from the group consisting of: 1H-1,2,3-triazol-1-yl, 2H-1,2,3-triazol-2-yl, 1 H-pyrazol-5-yl, 3-methyl-1,2,4-oxadiazol-5-yl, pyridinyl, 3-methyl-pyridin-2-yl; 1-(tetrahydro-2H-pyran-2-yl)-1H-pyrazol-5-yl), phenyl, and pyrimidin-2-yl; and
b) $-CF_3$, -Br, and $-C_{1-4}$alkoxy;

C) 5-membered heteroaryl ring selected from the group consisting of: 2-methyl-1,3-thiazol-yl, 1 H-pyrazol-5-yl, oxazole, isoxazolyl, thiophen-2-yl, and furan-2-yl, each substituted with phenyl substituted or unsubstituted with -F; and
D) 5-13 membered aryl or heteroaryl ring selected from the group consisting of: 3-methylfuran-2-yl, 9H-fluorene, quinoline, cinnoline; 3-(1H-pyrrol-1-yl)thiophen-2-yl, 8-[1,2,3]-triazol-2-yl-naphthalen-1-yl, 2,3-dihydro-1,4-benzodioxin-5-yl, 1H-indol-7-yl, 4-fluoronaphthalen-1-yl, and naphthalen-1-yl;

R^2 is a member selected from the group consisting of:

A) 6-membered heteroaryl ring containing two nitrogen members substituted with one or more members independently selected from the group consisting of: halo, $-C_{1-4}$alkyl, $-CD_3$, -D, $-C_{1-4}$alkoxy, cyclopropyl, morpholin-2-yl, $-CO_2C_{1-4}$alkyl, $-CO_2H$, $-CH_2OH$, $-C(O)N(C_{1-4}alkyl)_2$, $-CF_3$, -CN, -OH, $-NO_2$, $-N(C_{1-4}alkyl)_2$, phenyl, furan-2-yl, thiophen-2-yl, 1 H-pyrazol-4-yl, and pyrrolidin-1-yl;
B) pyridine substituted with one or two members independently selected from the group consisting of: halo, $-C_{1-4}$alkyl, $-C_{1-4}$alkoxy, and $-CF_3$;
C) 9-membered heteroaryl ring selected from the group consisting of: benzooxazol-2-yl, 6-fluoro-1,3-benzothiazole, 1,3-benzothiazole, 6-methoxy-1,3-benzothiazole, 6-methyl-1,3-benzothiazole, 6-chloro-benzothiazol-2-yl, and 4-methyl-6,7-dihydro-5H-cyclopenta[d]pyrimidine;
D) 10-membered heteroaryl ring selected from the group consisting of: quinoxalin-2-yl, 3-methylquinoxalin-2-yl, 6,7-difluoroquinoxalin-2-yl, 3-(trifluoromethyl)quinoxaline, quinoline, 4-methylquinoline, and 6-fluoroquinazolin-2-yl; and
E) 4-methyl-1,3,5-triazin-2-yl or 2-methylpyrimidin-4(3H)-one.

[0017] In another general aspect, the invention is directed to a chemical entity of Formula (II):



(II)

wherein

R^3 is phenyl substituted or unsubstituted with a member independently selected from the group consisting of: $-C_{1-4}$alkoxy, and phenyl; and
R^4 is a member selected from the group consisting of" (5-trifluoromethyl)-pyridin-2-yl, (5-trifluoromethyl)-pyrimidin-2-yl, 4,6-dimethylpyrimidin-2-yl, and quinoxalin-2-yl.

[0018] Further embodiments are provided by pharmaceutically acceptable salts of compounds of Formula (I) or Formula (II).

[0019] In certain embodiments, the compound of Formula (I) or Formula (II) is a compound selected from those species described or exemplified in the detailed description below.

[0020] In a further aspect, the invention relates to pharmaceutical compositions for use in treating a disease, disorder, or medical condition mediated by orexin receptor activity, comprising an effective amount of at least one chemical entity selected from compounds of Formula (I) or Formula (II) and pharmaceutically acceptable salts of compounds of Formula (I).

[0021] Pharmaceutical compositions according to the invention may further comprise one or more pharmaceutically acceptable excipients.

[0022] In another aspect, the chemical embodiments of the present invention are useful as orexin receptor modulators. Thus, the invention is directed to at least one chemical entity selected from compounds of Formula (I) or Formula (II) and pharmaceutically acceptable salts of compounds of Formula (I) or Formula (II) for use in a method for modulating orexin receptor activity, including when such receptor is in a subject, wherein said method comprises exposing orexin receptor to an effective amount of said at least one chemical entity.

In another aspect, the invention is directed to at least one chemical entity selected from compounds of Formula (I) or Formula (II) and pharmaceutically acceptable salts of compounds of Formula (I) or Formula (II).

[0023] In another aspect, method of studying isotopically labeled compounds in metabolic studies (preferably with ^{14}C), reaction kinetic studies (with, for example ^{2}H or ^{3}H), detection or imaging techniques [such as positron emission tomography (PET) or single-photon emission computed tomography (SPECT)] including drug or substrate tissue distribution assays, or in radioactive treatment of patients. For example, an ^{18}F or ^{11}C labeled compound may be particularly preferred for PET or an I^{123} for SPECT studies.

[0024] An object of the present invention is to overcome or ameliorate at least one of the disadvantages of the conventional methodologies and/or prior art, or to provide a useful alternative thereto. Additional embodiments, features, and advantages of the invention will be apparent from the following detailed description and through practice of the invention.

BRIEF DESCRIPTION OF THE DRAWINGS

[0025] Figure 1 is a Powder X-Ray Diffraction of an exemplified compound X

DETAILED DESCRIPTION

[0026] The invention may be more fully appreciated by reference to the following description, including the following glossary of terms and the concluding examples.

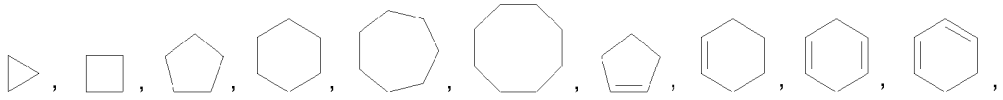
[0027] As used herein, the terms "including", "containing" and "comprising" are used herein in their open, non-limiting sense.

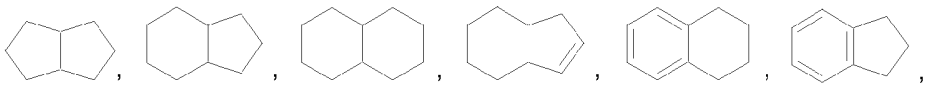
[0028] The term "alkyl" refers to a straight- or branched-chain alkyl group having from 1 to 12 carbon atoms in the chain. Examples of alkyl groups include methyl (Me, which also may be structurally depicted by the symbol, "/"), ethyl (Et), n-propyl, isopropyl, butyl, isobutyl, sec-butyl, tert-butyl (tBu), pentyl, isopentyl, tert-pentyl, hexyl, isohexyl, and groups that in light of the ordinary skill in the art and the teachings provided herein would be considered equivalent to any one of the foregoing examples.

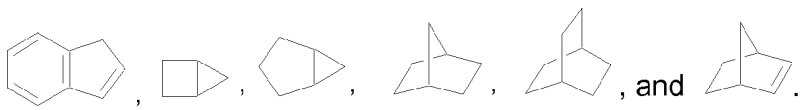
[0029] The term "alkoxy" includes a straight chain or branched alkyl group with a terminal oxygen linking the alkyl group to the rest of the molecule. Alkoxy includes methoxy, ethoxy, propoxy, isopropoxy, butoxy, t-butoxy, pentoxy and so on. "Aminoalkyl", "thioalkyl", and "sulfonylalkyl" are analogous to alkoxy, replacing the terminal oxygen atom of alkoxy with, respectively, NH (or NR), S, and SO_2.

[0030] The term "cyano" refers to the group -CN.

[0031] The term "cycloalkyl" refers to a saturated or partially saturated, monocyclic, fused polycyclic, or spiro polycyclic carbocycle having from 3 to 12 ring atoms per carbocycle. Illustrative examples of cycloalkyl groups include the following entities, in the form of properly bonded moieties:

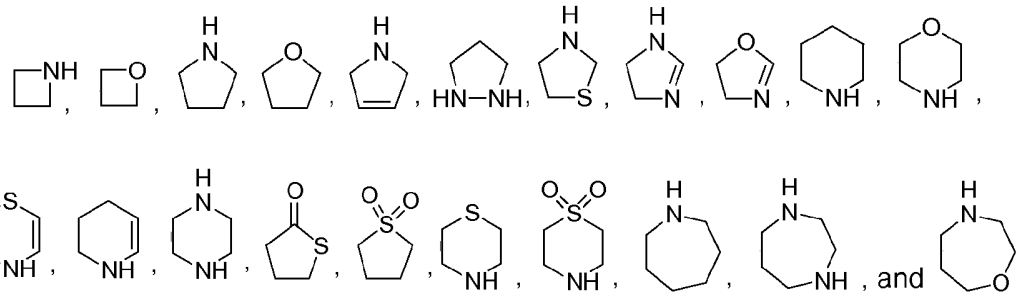




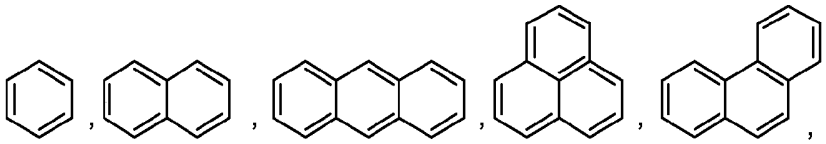

, and .

[0032] A "heterocycloalkyl" refers to a monocyclic ring structure that is saturated or partially saturated and has from

4 to 7 ring atoms per ring structure selected from carbon atoms and up to two heteroatoms selected from nitrogen, oxygen, and sulfur. The ring structure may optionally contain up to two oxo groups on sulfur ring members. Illustrative entities, in the form of properly bonded moieties, include:

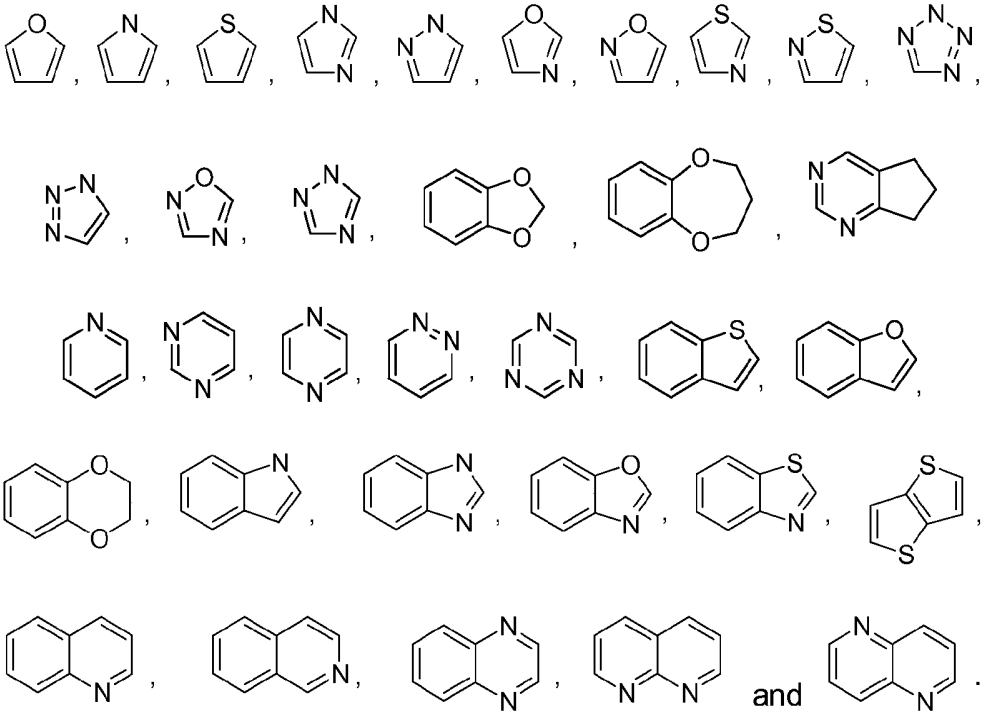


[0033] The term "aryl" refers to a monocyclic, or fused or spiro polycyclic, aromatic carbocycle (ring structure having ring atoms that are all carbon) having from 3 to 12 ring atoms per ring. (Carbon atoms in aryl groups are sp^2 hybridized.) Illustrative examples of aryl groups include the following moieties:



and the like.

[0034] The term "heteroaryl" refers to a monocyclic, fused bicyclic, or fused polycyclic aromatic heterocycle (ring structure having ring atoms selected from carbon atoms and up to four heteroatoms selected from nitrogen, oxygen, and sulfur) having from 3 to 12 ring atoms per heterocycle. Illustrative examples of heteroaryl groups include the following entities, in the form of properly bonded moieties:



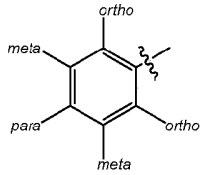
[0035] Those skilled in the art will recognize that the species of heteroaryl, cycloalkyl, aryl and heterocycloalkyl groups listed or illustrated above are not exhaustive, and that additional species within the scope of these defined terms may

also be selected.

[0036] The term "halogen" represents chlorine, fluorine, bromine or iodine. The term "halo" represents chloro, fluoro, bromo or iodo.

[0037] The term "substituted" means that the specified group or moiety bears one or more substituents. The term "unsubstituted" means that the specified group bears no substituents. The term "optionally substituted" means that the specified group is unsubstituted or substituted by one or more substituents. Where the term "substituted" is used to describe a structural system, the substitution is meant to occur at any valency-allowed position on the system. In cases where a specified moiety or group is not expressly noted as being optionally substituted or substituted with any specified substituent, it is understood that such a moiety or group is intended to be unsubstituted.

[0038] The terms "para", "meta", and "ortho" have the meanings as understood in the art. Thus, for example, a fully substituted phenyl group has substituents at both "ortho"(o) positions adjacent to the point of attachment of the phenyl ring, both "meta" (m) positions, and the one "para" (p) position across from the point of attachment as illustrated below.



[0039] To provide a more concise description, some of the quantitative expressions given herein are not qualified with the term "about". It is understood that, whether the term "about" is used explicitly or not, every quantity given herein is meant to refer to the actual given value, and it is also meant to refer to the approximation to such given value that would reasonably be inferred based on the ordinary skill in the art, including equivalents and approximations due to the experimental and/or measurement conditions for such given value. Whenever a yield is given as a percentage, such yield refers to a mass of the entity for which the yield is given with respect to the maximum amount of the same entity that could be obtained under the particular stoichiometric conditions. Concentrations that are given as percentages refer to mass ratios, unless indicated differently.

[0040] The terms "buffered" solution or "buffer" solution are used herein interchangeably according to their standard meaning. Buffered solutions are used to control the pH of a medium, and their choice, use, and function is known to those of ordinary skill in the art. See, for example, G.D. Considine, ed., Van Nostrand's Encyclopedia of Chemistry, p. 261, 5th ed. (2005), describing, inter alia, buffer solutions and how the concentrations of the buffer constituents relate to the pH of the buffer. See also Handbook of Chemistry and Physics, 84th ed., pp. 8-37 to 8-44. For example, a buffered solution is obtained by adding $MgSO_4$ and $NaHCO_3$ to a solution in a 10:1 w/w ratio to maintain the pH of the solution at about 7.5.

[0041] Any formula given herein is intended to represent compounds having structures depicted by the structural formula as well as certain variations or forms. In particular, compounds of any formula given herein may have asymmetric centers and therefore exist in different enantiomeric forms. All optical isomers and stereoisomers of the compounds of the general formula, and mixtures thereof, are considered within the scope of the formula. Thus, any formula given herein is intended to represent a racemate, one or more enantiomeric forms, one or more diastereomeric forms, one or more atropisomeric forms, and mixtures thereof. Furthermore, certain structures may exist as geometric isomers (i.e., *cis* and *trans* isomers), as tautomers, or as atropisomers.

[0042] The symbols and are used as meaning the same spatial arrangement in chemical structures shown herein. Analogously, the symbols and are used as meaning the same spatial arrangement in chemical structures shown herein.

[0043] Additionally, any formula given herein is intended to refer also to hydrates, solvates, and polymorphs of such compounds, and mixtures thereof, even if such forms are not listed explicitly. Certain compounds of Formula (I) or Formula (II) or pharmaceutically acceptable salts of compounds of Formula (I) or Formula (II) may be obtained as solvates. Solvates include those formed from the interaction or complexation of compounds of the invention with one or more solvents, either in solution or as a solid or crystalline form. In some embodiments, the solvent is water and then the solvates are hydrates. In addition, certain crystalline forms of compounds of Formula (I) or Formula (II) or pharmaceutically acceptable salts of compounds of Formula (I) or Formula (II) may be obtained as co-crystals. In certain embodiments of the invention, compounds of Formula (I) or Formula (II) were obtained in a crystalline form. In other embodiments, crystalline forms of compounds of Formula (I) or Formula (II) were cubic in nature. In other embodiments, pharmaceutically acceptable salts of compounds of Formula (I) or Formula (II) were obtained in a crystalline form. In still other embodiments, compounds of Formula (I) or Formula (II) were obtained in one of several polymorphic forms, as a mixture of crystalline forms, as a polymorphic form, or as an amorphous form. In other embodiments, compounds

of Formula (I) or Formula (II) convert in solution between one or more crystalline forms and/or polymorphic forms.

[0044] Reference to a chemical entity herein stands for a reference to any one of: (a) the actually recited form of such chemical entity, and (b) any of the forms of such chemical entity in the medium in which the compound is being considered when named. For example, reference herein to a compound such as R-COOH, encompasses reference to any one of, for example, $R\text{-}COOH_{(s)}$, $R\text{-}COOH_{(sol)}$, and $R\text{-}COO^{-}{}_{(sol)}$. In this example, $R\text{-}COOH_{(s)}$ refers to the solid compound, as it could be for example in a tablet or some other solid pharmaceutical composition or preparation; $R\text{-}COOH_{(sol)}$ refers to the undissociated form of the compound in a solvent; and $R\text{-}COO^{-}{}_{(sol)}$ refers to the dissociated form of the compound in a solvent, such as the dissociated form of the compound in an aqueous environment, whether such dissociated form derives from R-COOH, from a salt thereof, or from any other entity that yields R-COO- upon dissociation in the medium being considered. In another example, an expression such as "exposing an entity to compound of formula R-COOH" refers to the exposure of such entity to the form, or forms, of the compound R-COOH that exists, or exist, in the medium in which such exposure takes place. In still another example, an expression such as "reacting an entity with a compound of formula R-COOH" refers to the reacting of (a) such entity in the chemically relevant form, or forms, of such entity that exists, or exist, in the medium in which such reacting takes place, with (b) the chemically relevant form, or forms, of the compound R-COOH that exists, or exist, in the medium in which such reacting takes place. In this regard, if such entity is for example in an aqueous environment, it is understood that the compound R-COOH is in such same medium, and therefore the entity is being exposed to species such as $R\text{-}COOH_{(aq)}$ and/or $R\text{-}COO^{-}{}_{(aq)}$, where the subscript "(aq)" stands for "aqueous" according to its conventional meaning in chemistry and biochemistry. A carboxylic acid functional group has been chosen in these nomenclature examples; this choice is not intended, however, as a limitation but it is merely an illustration. It is understood that analogous examples can be provided in terms of other functional groups, including but not limited to hydroxyl, basic nitrogen members, such as those in amines, and any other group that interacts or transforms according to known manners in the medium that contains the compound. Such interactions and transformations include, but are not limited to, dissociation, association, tautomerism, solvolysis, including hydrolysis, solvation, including hydration, protonation, and deprotonation. No further examples in this regard are provided herein because these interactions and transformations in a given medium are known by any one of ordinary skill in the art.

[0045] In another example, a zwitterionic compound is encompassed herein by referring to a compound that is known to form a zwitterion, even if it is not explicitly named in its zwitterionic form. Terms such as zwitterion, zwitterions, and their synonyms zwitterionic compound(s) are standard IUPAC-endorsed names that are well known and part of standard sets of defined scientific names. In this regard, the name zwitterion is assigned the name identification CHEBI:27369 by the Chemical Entities of Biological Interest (ChEBI) dictionary of molecular entities. As generally well known, a zwitterion or zwitterionic compound is a neutral compound that has formal unit charges of opposite sign. Sometimes these compounds are referred to by the term "inner salts". Other sources refer to these compounds as "dipolar ions", although the latter term is regarded by still other sources as a misnomer. As a specific example, aminoethanoic acid (the amino acid glycine) has the formula H_2NCH_2COOH, and it exists in some media (in this case in neutral media) in the form of the zwitterion $^{+}H_3NCH_2COO^{-}$. Zwitterions, zwitterionic compounds, inner salts and dipolar ions in the known and well established meanings of these terms are within the scope of this invention, as would in any case be so appreciated by those of ordinary skill in the art. Because there is no need to name each and every embodiment that would be recognized by those of ordinary skill in the art, no structures of the zwitterionic compounds that are associated with the compounds of this invention are given explicitly herein. They are, however, part of the embodiments of this invention. No further examples in this regard are provided herein because the interactions and transformations in a given medium that lead to the various forms of a given compound are known by any one of ordinary skill in the art.

[0046] Any formula given herein is also intended to represent unlabeled forms as well as isotopically labeled forms of the compounds. Isotopically labeled compounds have structures depicted by the formulas given herein except that one or more atoms are replaced by an atom having a selected atomic mass or mass number. Examples of isotopes that can be incorporated into compounds of the invention include isotopes of hydrogen, carbon, nitrogen, oxygen, phosphorus, fluorine, and chlorine, such as ^{2}H, ^{3}H, ^{11}C, ^{13}C, ^{14}C, ^{15}N, ^{18}O, ^{17}O, ^{31}P, ^{32}P ^{35}S ^{18}F ^{36}Cl, ^{125}I, respectively. Such isotopically labeled compounds are useful in metabolic studies (preferably with ^{14}C), reaction kinetic studies (with, for example ^{2}H or ^{3}H), detection or imaging techniques [such as positron emission tomography (PET) or single-photon emission computed tomography (SPECT)] including drug or substrate tissue distribution assays, or in radioactive treatment of patients. In particular, an ^{18}F or ^{11}C labeled compound may be particularly preferred for PET or an I^{123} for SPECT studies. Further, substitution with heavier isotopes such as deuterium (i.e., ^{2}H) may afford certain therapeutic advantages resulting from greater metabolic stability, for example increased *in vivo* half-life or reduced dosage requirements. Isotopically labeled compounds of this invention and prodrugs thereof can generally be prepared by carrying out the procedures disclosed in the schemes or in the examples and preparations described below by substituting a readily available isotopically labeled reagent for a non-isotopically labeled reagent.

[0047] When referring to any formula given herein, the selection of a particular moiety from a list of possible species for a specified variable is not intended to define the same choice of the species for the variable appearing elsewhere. In other words, where a variable appears more than once, the choice of the species from a specified list is independent

of the choice of the species for the same variable elsewhere in the formula, unless stated otherwise.

[0048] By way of a first example on substituent terminology, if substituent $S^1_{example}$ is one of S_1 and S_2, and substituent $S^2_{example}$ is one of S_3 and S_4, then these assignments refer to embodiments of this invention given according to the choices $S^1_{example}$ is S_1 and $S^2_{example}$ is S_3; $S1_{example}$ is S_1 and $S^2_{example}$ is S_4; S^1example is S_2 and $S^2_{example}$ is S_3; $S^1_{example}$ is S_2 and $S^2_{example}$ is S_4; and equivalents of each one of such choices. The shorter terminology "$S^1_{example}$ is one of S_1 and S_2, and $S^2_{example}$ is one of S_3 and S_4" is accordingly used herein for the sake of brevity, but not by way of limitation. The foregoing first example on substituent terminology, which is stated in generic terms, is meant to illustrate the various substituent assignments described herein. The foregoing convention given herein for substituents extends, when applicable, to members such as R^1, R^2, R^3, R^4, A, R^a, R^b, R^c, R^d, R^e, R^f, R^g, R^h, R^i, R^j, and R^k, and any other generic substituent symbol used herein.

[0049] Furthermore, when more than one assignment is given for any member or substituent, embodiments of this invention comprise the various groupings that can be made from the listed assignments, taken independently, and equivalents thereof. By way of a second example on substituent terminology, if it is herein described that substituent $S_{example}$ is one of S_1, S_2, and S_3, this listing refers to embodiments of this invention for which $S_{example}$ is S_1; $S_{example}$ is S_2; $S_{example}$ is S_3; $S_{example}$ is one of S_1 and S_2; $S_{example}$ is one of S_1 and S_3; $S_{example}$ is one of S_2 and S_3; $S_{example}$ is one of S_1, S_2 and S_3; and $S_{example}$ is any equivalent of each one of these choices. The shorter terminology "$S_{example}$ is one of S_1, S_2, and S_3" is accordingly used herein for the sake of brevity, but not by way of limitation. The foregoing second example on substituent terminology, which is stated in generic terms, is meant to illustrate the various substituent assignments described herein. The foregoing convention given herein for substituents extends, when applicable, to members such as R^1, R^2, R^3, R^4, A, R^a, R^b, R^c, R^d, R^e, R^f, R^g, R^h, R^i, R^j, and R^k, and any other generic substituent symbol used herein.

[0050] The nomenclature "C_{i-j}" with j > i, when applied herein to a class of substituents, is meant to refer to embodiments of this invention for which each and every one of the number of carbon members, from i to j including i and j, is independently realized. By way of example, the term C_{1-3} refers independently to embodiments that have one carbon member (C_1), embodiments that have two carbon members (C_2), and embodiments that have three carbon members (C_3).

[0051] The term C_{n-m}alkyl refers to an aliphatic chain, whether straight or branched, with a total number N of carbon members in the chain that satisfies $n \leq N \leq m$, with m > n. Any disubstituent referred to herein is meant to encompass the various attachment possibilities when more than one of such possibilities are allowed. For example, reference to disubstituent -A-B-, where A ≠ B, refers herein to such disubstituent with A attached to a first substituted member and B attached to a second substituted member, and it also refers to such disubstituent with A attached to the second substituted member and B attached to the first substituted member.

[0052] According to the foregoing interpretive considerations on assignments and nomenclature, it is understood that explicit reference herein to a set implies, where chemically meaningful and unless indicated otherwise, independent reference to embodiments of such set, and reference to each and every one of the possible embodiments of subsets of the set referred to explicitly.

[0053] Some embodiments are given by compounds of Formula (I) where R^1 is phenyl substituted with R^a, where R^a is -F, -I, -Cl, $-OCH_3$, $-OCH_2CH_3$, $-CH_3$,$-CH(CH_3)_2$, $-C(CH_3)_3$ or $-NO_2$.

[0054] In some of these embodiments, R^1 is substituted phenyl wherein R^b is a -Br, -F, -I, $-C_{1-4}$alkyl, $-OCH_3$, $-OCH_2CH_3$, -CN, $-CF_3$, or $-OCF_3$.

[0055] In some of these embodiments, R^1 is phenyl substituted with R^a, wherein R^a is -H, -F, -Cl, $-CH_3$, $-C(CH_3)_3$, $-OCH_3$, or $-OCH_2CH_3$, and R^b is -Br, -F, -I, $-C_{1-4}$alkyl, $-OCH_3$, $-OCH_2CH_3$, -CN, $-CF_3$, or $-OCF_3$.

[0056] In some of these embodiments, R^1 is substituted phenyl where R^b is 2-thiophen-2-yl or 2-furan-2-yl.

[0057] In some of these embodiments, R^1 is substituted phenyl where R^b is phenyl, 3-chlorophenyl, 4-fluorophenyl, 3-fluorophenyl, 4-methylphenyl, or 4-trifluoromethylphenyl.

[0058] In some of these embodiments, R^1 is substituted phenyl where R^b is 1 H-pyrrol-1-yl, 1 H-pyrazol-1-yl, 1 H-pyrazol-5-yl, 1H-imidazol-2-yl, 1-methyl-1H-imidazol-2-yl, 1H-1,2,3-triazol-1-yl, 2H-1,2,3-triazol-2-yl, 2H-1,2,3-triazol-1-yl, 1H-1,2,4-triazol-5-yl, 2H-1,2,4-triazol-1-yl, 2H-1,2,4-triazol-3-yl, 4H-1,2,4-triazol-3-yl, 4H-1,2,4-triazol-4-yl, 1-methyl-1H-1,2,4-triazol-3-yl, 1-methyl-1 H-1,2,4-triazol-5-yl or 1-(tetrahydro-2H-pyran-2-yl)-1H-pyrazol-5-yl.

[0059] In some of these embodiments, R^1 is substituted phenyl, where R^b is pyridin-2-yl, 3-chloropyridin-2-yl, 3-fluoropyridin-2-yl, 3-methylpyridin-2-yl, 4-methylpyridin-2-yl, 5-methylpyridin-2-yl, 6-methylpyridin-2-yl, 2-pyridin-3-yl, or 2-pyrimidin-2-yl.

[0060] In some of these embodiments, R^1 is substituted phenyl, where R^b is 3-methyl-1,2,4-oxadiazol-5-yl or oxazol-2-yl.

[0061] In some of these embodiments, R^1 is phenyl substituted with R^a, where R^a is halo, $-C_{1-4}$alkyl, or $-C_{1-4}$alkoxy, and R^b is triazole or pyrimidine substituted or unsubstituted with halo or $-C_{1-4}$alkyl.

[0062] In some of these embodiments, R^1 is (1-methylethyl)-2-(2H-1,2,3-triazol-2-yl)phenyl, 2-(1H-1,2,3-triazol-1-yl)phenyl, 2-(2H-1,2,3-triazol-2-yl)phenyl, 2-fluoro-6-(2H-1,2,3-triazol-2-yl)phenyl, 2-methyl-6-(2H-1,2,3-triazol-2-yl)phenyl, 3-fluoro-2-(2H-1,2,3-triazol-2-yl)phenyl, 3-fluoro-2-(1H-1,2,3-triazol-1-yl)phenyl, 3-methoxy-2-(1H-1,2,3-triazol-1-

yl)phenyl, 3-methoxy-2-(2H-1,2,3-triazol-2-yl)phenyl, 3-methyl-2-(2H-1,2,3-triazol-2-yl)phenyl, 3-methyl-2-(1H-1,2,3-triazol-1-yl)phenyl, 4-fluoro-2-(2H-1,2,3-triazol-2-yl)phenyl, 4-methoxy-2-(2H-1,2,3-triazol-2-yl)phenyl, 4-methoxy-2-(1H-1,2,3-triazol-2-yl)phenyl, 4,5-dimethoxy-2-[1,2,3]triazol-1-yl-phenyl, 4,5-dimethoxy-2-[1,2,3]triazol-2-yl-phenyl, 5-[1,2,3]triazol-2-yl-benzo[1,3]dioxol-4-yl, 5-chloro-2-(2H-1,2,3-triazol-2-yl)phenyl, 5-fluoro-2-(2H-1,2,3-triazol-2-yl)phenyl, 5-iodo-2-(2H-1,2,3-triazol-2-yl)phenyl, 5-methoxy-2-(2H-1,2,3-triazol-2-yl)phenyl, 5-methyl-2-(2H-1,2,3-triazol-2-yl)phenyl, 1-[1,2,3]triazol-2-yl-naphthalen-2-yl, 2-(1H-1,2,4-triazol-1-yl)phenyl, 2-(1H-1,2,4-triazol-5-yl)phenyl, 2-(1-methyl-1H-1,2,4-triazol-5-yl)phenyl, 2-(1-methyl-1H-1,2,4-triazol-3-yl)phenyl, 2-(4H-1,2,4-triazol-3-yl)phenyl, 2-(4H-1,2,4-triazol-4-yl)phenyl, 2-(3-methyl-1,2,4-oxadiazol-5-yl)phenyl, 3-fluoro-2-(3-methyl-1,2,4-oxadiazol-5-yl)phenyl, 2-fluoro-6-(3-methyl-1,2,4-oxadiazol-5-yl)phenyl, 4,5-difluoro-2-(4H-1,2,4-triazol-4-yl)phenyl), 2-fluoro-6-pyrimidin-2-ylphenyl, 2-(pyrimidin-2-yl)pyridin-3-yl, 3-fluoro-2-pyrimidin-2-ylphenyl, 4-fluoro-2-(pyrimidin-2-yl)phenyl, 4-methoxy-2-(pyrimidin-2-yl)phenyl, 5-fluoro-2-pyrimidin-2-ylphenyl, or 5-methyl-2-pyrimidin-2-ylphenyl.

[0063] Some embodiments are given by compounds of Formula (I) where R^1 is substituted pyridine, where R^d is $-CF_3$, -Br, or $-OCH_2CH_2CH_3$.

[0064] In some of these embodiments, wherein R^1 is substituted pyridine, R^d is 1 H-pyrazol-5-yl, 2H-1,2,3-triazol-1-yl, 2H-1,2,3-triazol-2-yl, 4H-1,2,3-triazol-1-yl, 1-(tetrahydro-2H-pyran-2-yl)-1H-pyrazol-5-yl, 3-methylpyridin-2-yl, or 3-methyl-1,2,4-oxadiazol-5-yl.

[0065] In some of these embodiments, wherein R^1 is substituted pyridine, R^d is 1 H-pyrazol-5-yl, 2H-1,2,3-triazol-1-yl, or 2H-1,2,3-triazol-2-yl.

[0066] In some of these embodiments, wherein R^1 is 1-phenyl-1 H-pyrazol-5-yl, 3-phenylthiophen-2-yl, 3-phenylfuran-2-yl, 5-phenyl-1,3-oxazol-4-yl, 5-phenylisoxazol-4-yl, 5-(2-fluorophenyl)-2-methyl-1,3-thiazol-4-yl, 2-methyl-5-phenyl-thiazol-4-yl, or 5-(4-fluorophenyl)-2-methyl-1,3-thiazol-4-yl.

[0067] Some embodiments are given by compounds of Formula (I), where R^1 is 3-methylfuran-2-yl, 9H-fluorene, quinoline, cinnoline; 3-(1H-pyrrol-1-yl)thiophen-2-yl, 8-[1,2,3]-triazol-2-yl-naphthalen-1 -yl, 2,3-dihydro-1,4-benzodioxin-5-yl, 1H-indol-7-yl, 4-fluoronaphthalen-1-yl, and naphthalen-1-yl and R^2 is selected from the group consisting of 4,6-dimethylpyrimidin-2-yl, 4-phenyl-pyrimidin-2-yl, quinoxaline, or 4-methoxypyrimidin-2-yl.

[0068] Some embodiments are given by compounds of Formula (I), where R^2 is pyrimidine substituted with -F, -Cl, -D, $-CD_3$, $-CH_3$, ethyl, isopropyl, propyl, tert-butyl, $-CF_3$, $-OCH_3$, $-N(CH_3)_2$, -CN, -OH, $-CH_2OH$, $-NO_2$, $-CO_2CH_3$, $-CO_2H$,$-C(O)N(CH_3)_2$, phenyl, furan-2-yl, thiophen-2-yl, 1 H-pyrazol-4-yl, cyclopropyl, pyrrolidin-1-yl, or morpholin-4-yl.

[0069] In some of these embodiments, R^2 is 4,6-dimethylpyrimidin-2-yl, 4,5-dimethylpyrimidin-2-y1,4,6-dimethoxypyrimidin-2-y1,4-phenyl-pyrimidin-2-yl, 4-furan-2-ylpyrimidin-2-yl, 4-methylpyrimidin-2-yl, 4-methoxypyrimidin-2-yl, 4-thiophen-2-ylpyrimidin-2-yl, N,N,6-trimethyl-pyrimidin-4-amine, 4-(trifluoromethyl)pyrimidin-2-yl, 4,5,6-trimethylpyrimidin-2-yl, 4-(trifluoromethyl)pyrimidine-5-carboxylate, 4-(trifluoromethyl)pyrimidine-5-carboxylic acid, 5-nitro-pyrimidin-2-yl, 6-methylpyrimidine-4-carboxylic acid, N,N-dimethyl-4-(trifluoromethyl)pyrimidine-5-carboxamide, N,N,6-trimethylpyrimidine-carboxamide, 6-methylpyrimidine-4-carbonitrile, 4,6-bis(trifluoromethyl)pyrimidin-2-yl, 6-methyl-pyrimidin-4-ol, 4-(furan-2-yl)-6-methylpyrimidin-2-yl, 5-fluoro-4-methylpyrimidin-2-yl, 5-fluoropyrimidin-2-yl, 4-methoxy-6-methylpyrimidin-2-yl, 4-ethyl-6-methylpyrimidin-2-yl, 4-isopropyl-6-methylpyrimidin-2-yl, 4-tertbutyl-6-methylpyrimidin-2-yl, 4-cyclopropyl-6-methylpyrimidin-2-yl, 4-methyl-6-morpholin-4-ylpyrimidin-2-yl, 5-chloro-4-methylpyrimidin-2-yl, 5-chloro-4,6-dimethylpyrimidin-2-yl, 5-fluoro-4,6-dimethylpyrimidin-2-yl, 5-trifluoromethylpyrimidin-2-yl, 4,6-bis[(^{2}H3)methyl](^{2}H)pyrimidin-2-yl, or 5-ethyl-4,6-dimethylpyrimidin-2-yl.

[0070] In some of these embodiments, R^2 is pyrimidine substituted with one or more -Cl, -F, $-CH_3$, $-CF_3$, $-N(CH_3)_2$, -D, or $-CD_3$.

[0071] In some of these embodiments, R^2 is 4,6-dimethylpyrimidin-2-yl, 4,5-dimethylpyrimidin-2-y1,4,6-dimethoxypyrimidin-2-yl, 4-methylpyrimidin-2-yl, 4-methoxypyrimidin-2-yl, N,N,6-trimethyl-pyrimidin-4-amine, 4-(trifluoromethyl)pyrimidin-2-yl, 4,5,6-trimethylpyrimidin-2-yl, 4,6-bis(trifluoromethyl)pyrimidin-2-yl, 6-methyl-pyrimidin-4-ol, 5-fluoro-4-methylpyrimidin-2-yl, 5-fluoropyrimidin-2-yl, 4-methoxy-6-methylpyrimidin-2-yl, 5-chloro-4-methylpyrimidin-2-yl, 5-chloro-4,6-dimethylpyrimidin-2-yl, 5-fluoro-4,6-dimethylpyrimidin-2-yl, 5-trifluoromethylpyrimidin-2-yl, or 4,6-bis[(^{2}H3)methyl](^{2}H)pyrimidin-2-yl.

[0072] Some embodiments are given by compounds of Formula (I) where R^2 is pyrazine or triazine substituted with one or more $-CH_3$.

[0073] Some embodiments are given by compounds of Formula (I) where R^2 is pyridine substituted with one or more -F, $-OCH_3$, $-OCH_2CH_3$, $-CH_3$, or $-CF_3$.

[0074] In some of these embodiments, R^2 is benzooxazol-2-yl, 2-methylpyrimidin-4(3H)-one and 4-methyl-6,7-dihydro-5H-cyclopenta[d]pyrimidine and R^1 is phenyl, substituted in the *ortho* position with R^b, where R^b is 2H-1,2,3-triazol-2-yl, 2H-1,2,3-triazol-1-yl, 3-methyl-1,2,4-oxadiazol-5-yl or 2-pyrimidin-2-yl.

[0075] Some embodiments are given by compounds of Formula (I) where R^2 is quinoxalin-2-yl, 3-methylquinoxalin-2-yl, 6,7-difluoroquinoxalin-2-yl, 3-(trifluoromethyl)quinoxaline, 4-methylquinoline, or 6-fluoroquinazolin-2-yl and R^1 is phenyl substituted in the *ortho* position with R^b, where R^b is 2H-1,2,3-triazol-2-yl, 2H-1,2,3-triazol-1-yl, 3-methyl-1,2,4-oxadiazol-5-yl or 2-pyrimidin-2-yl.

[0076] Some embodiments are given by compounds of Formula (II) where R^3 is biphenyl or 2-methoxyphenyl and R^4 is (5-trifluoromethyl)-pyridin-2-yl, (5-trifluoromethyl)-pyrimidin-2-yl, 4,6-dimethylpyrimidin-2-yl, or quinoxalin-2-yl.

[0077] Some embodiments are given by compounds of Formula (I) wherein R^1 is 2-(1 H-1,2,3-triazol-1-yl)phenyl, 2-(2H-1,2,3-triazol-2-yl)phenyl, 2-fluoro-6-(2H-1,2,3-triazol-2-yl)phenyl, 2-methyl-6-(2H-1,2,3-triazol-2-yl)phenyl, 3-fluoro-2-(2H-1,2,3-triazol-2-yl)phenyl, 3-fluoro-2-(1H-1,2,3-triazol-1-yl)phenyl, 3-methoxy-2-(1H-1,2,3-triazol-1-yl)phenyl, 3-methoxy-2-(2H-1,2,3-triazol-2-yl)phenyl, 3-methyl-2-(2H-1,2,3-triazol-2-yl)phenyl, 3-methyl-2-(1H-1,2,3-triazol-1-yl)phenyl, 4-fluoro-2-(2H-1,2,3-triazol-2-yl)phenyl, 4-methoxy-2-(2H-1,2,3-triazol-2-yl)phenyl, 4-methoxy-2-(1H-1,2,3-triazol-2-yl)phenyl, 4,5-dimethoxy-2-[1,2,3]triazol-1-yl-phenyl, 4,5-dimethoxy-2-[1,2,3]triazol-2-yl-phenyl, 5-chloro-2-(2H-1,2,3-triazol-2-yl)phenyl, 5-fluoro-2-(2H-1,2,3-triazol-2-yl)phenyl, 5-methoxy-2-(2H-1,2,3-triazol-2-yl)phenyl, 5-methyl-2-(2H-1,2,3-triazol-2-yl)phenyl, 2-(1H-1,2,4-triazol-1-yl)phenyl, 2-(1 H-1,2,4-triazol-5-yl)phenyl, 2-(1-methyl-1 H-1,2,4-triazol-5-yl)phenyl, 2-(1-methyl-1H-1,2,4-triazol-3-yl)phenyl, 2-(4H-1,2,4-triazol-3-yl)phenyl, 2-(4H-1,2,4-triazol-4-yl)phenyl, 2-(3-methyl-1,2,4-oxadiazol-5-yl)phenyl, 3-fluoro-2-(3-methyl-1,2,4-oxadiazol-5-yl)phenyl, 2-fluoro-6-(3-methyl-1,2,4-oxadiazol-5-yl)phenyl, 4,5-difluoro-2-(4H-1,2,4-triazol-4-yl)phenyl), 2-fluoro-6-pyrimidin-2-ylphenyl, 2-(pyrimidin-2-yl)pyridin-3-yl, 3-fluoro-2-pyrimidin-2-ylphenyl, 4-fluoro-2-(pyrimidin-2-yl)phenyl, 4-methoxy-2-(pyrimidin-2-yl)phenyl, 5-fluoro-2-pyrimidin-2-ylphenyl, or 5-methyl-2-pyrimidin-2-ylphenyl and R^2 is 4,6-dimethylpyrimidin-2-yl, 4,5-dimethylpyrimidin-2-yl,4,6-dimethoxypyrimidin-2-yl, 4-methylpyrimidin-2-yl, 4-methoxypyrimidin-2-yl, N,N,6-trimethyl-pyrimidin-4-amine, 4-(trifluoromethyl)pyrimidin-2-yl, 4,5,6-trimethylpyrimidin-2-yl, 4,6-bis(trifluoromethyl)pyrimidin-2-yl, 6-methylpyrimidin-4-ol, 5-fluoro-4-methylpyrimidin-2-yl, 5-fluoropyrimidin-2-yl, 4-methoxy-6-methylpyrimidin-2-yl, 5-chloro-4-methylpyrimidin-2-yl, 5-chloro-4,6-dimethylpyrimidin-2-yl, 5-fluoro-4,6-dimethylpyrimidin-2-yl, 5-trifluoromethylpyrimidin-2-yl, or 4,6-bis[(^{2}H3)methyl](^{2}H)pyrimidin-2-yl.

[0078] Some embodiments are given by compounds of Formula (I) wherein R^1 is 3-fluoro-2-(3-methyl-1,2,4-oxadiazol-5-yl)phenyl, 6-fluoro-2-(2H-1,2,3-triazol-2-yl)phenyl, 4-methoxy-2-(2H-1,2,3-triazol-2-yl)phenyl, or 3-[1,2,3]triazol-2-yl-pyridin-2-yl and R^2 is 4,6-dimethylpyrimidin-2-yl, 5-fluoro-4,6-dimethylpyrimidin-2-yl, or 5-fluoro-4-methylpyrimidin-2-yl.

[0079] Compounds of Formula (I) and Formula (II) and pharmaceutically acceptable salts thereof are used, alone or in combination with one or more additional active ingredients, to formulate pharmaceutical compositions. A pharmaceutical composition therefore comprises an effective amount of at least one compound of Formula (I) and Formula (II) or a pharmaceutically acceptable salt thereof.

[0080] The invention includes also pharmaceutically acceptable salts of the compounds of Formula (I) and Formula (II), preferably of those described above and of the specific compounds exemplified herein, and use of such salts in methods of treatment.

[0081] A "pharmaceutically acceptable salt" is intended to mean a salt of a free acid or base of a compound represented by Formula (I) and Formula (II), that is non-toxic, biologically tolerable, or otherwise biologically suitable for administration to the subject. See, generally, G.S. Paulekuhn, et al., "Trends in Active Pharmaceutical Ingredient Salt Selection based on Analysis of the Orange Book Database", J. Med. Chem., 2007, 50:6665-72, S.M. Berge, et al., "Pharmaceutical Salts", J Pharm Sci., 1977, 66:1-19, and Handbook of Pharmaceutical Salts, Properties, Selection, and Use, Stahl and Wermuth, Eds., Wiley-VCH and VHCA, Zurich, 2002. Examples of pharmaceutically acceptable salts are those that are pharmacologically effective and suitable for contact with the tissues of patients without undue toxicity, irritation, or allergic response. A compound of Formula (I) and Formula (II) may possess a sufficiently acidic group, a sufficiently basic group, or both types of functional groups, and accordingly react with a number of inorganic or organic bases, and inorganic and organic acids, to form a pharmaceutically acceptable salt.

[0082] Examples of pharmaceutically acceptable salts include sulfates, pyrosulfates, bisulfates, sulfites, bisulfites, phosphates, monohydrogen-phosphates, dihydrogenphosphates, metaphosphates, pyrophosphates, chlorides, bromides, iodides, acetates, propionates, decanoates, caprylates, acrylates, formates, isobutyrates, caproates, heptanoates, propiolates, oxalates, malonates, succinates, suberates, sebacates, fumarates, maleates, butyne-1,4-dioates, hexyne-1,6-dioates, benzoates, chlorobenzoates, methylbenzoates, dinitrobenzoates, hydroxybenzoates, methoxybenzoates, phthalates, sulfonates, xylenesulfonates, phenylacetates, phenylpropionates, phenylbutyrates, citrates, lactates, y-hydroxybutyrates, glycolates, tartrates, methane-sulfonates, propanesulfonates, naphthalene-1-sulfonates, naphthalene-2-sulfonates, and mandelates.

[0083] When the compound of Formula (I) or Formula (II) contains a basic nitrogen, the desired pharmaceutically acceptable salt may be prepared by any suitable method available in the art, for example, treatment of the free base with an inorganic acid, such as hydrochloric acid, hydrobromic acid, sulfuric acid, sulfamic acid, nitric acid, boric acid, phosphoric acid, and the like, or with an organic acid, such as acetic acid, phenylacetic acid, propionic acid, stearic acid, lactic acid, ascorbic acid, maleic acid, hydroxymaleic acid, isethionic acid, succinic acid, valeric acid, fumaric acid, malonic acid, pyruvic acid, oxalic acid, glycolic acid, salicylic acid, oleic acid, palmitic acid, lauric acid, a pyranosidyl acid, such as glucuronic acid or galacturonic acid, an alpha-hydroxy acid, such as mandelic acid, citric acid, or tartaric acid, an amino acid, such as aspartic acid, glutaric acid or glutamic acid, an aromatic acid, such as benzoic acid, 2-acetoxybenzoic acid, naphthoic acid, or cinnamic acid, a sulfonic acid, such as laurylsulfonic acid, p-toluenesulfonic acid, methanesulfonic acid, ethanesulfonic acid, any compatible mixture of acids such as those given as examples

herein, and any other acid and mixture thereof that are regarded as equivalents or acceptable substitutes in light of the ordinary level of skill in this technology.

[0084] When the compound of Formula (I) or Formula (II) is an acid, such as a carboxylic acid or sulfonic acid, the desired pharmaceutically acceptable salt may be prepared by any suitable method, for example, treatment of the free acid with an inorganic or organic base, such as an amine (primary, secondary or tertiary), an alkali metal hydroxide, alkaline earth metal hydroxide, any compatible mixture of bases such as those given as examples herein, and any other base and mixture thereof that are regarded as equivalents or acceptable substitutes in light of the ordinary level of skill in this technology. Illustrative examples of suitable salts include organic salts derived from amino acids, such as N-methyl-D-glucamine, lysine, choline, glycine and arginine, ammonia, carbonates, bicarbonates, primary, secondary, and tertiary amines, and cyclic amines, such as tromethamine, benzylamines, pyrrolidines, piperidine, morpholine, and piperazine, and inorganic salts derived from sodium, calcium, potassium, magnesium, manganese, iron, copper, zinc, aluminum, and lithium.

[0085] Pharmaceutically acceptable prodrugs of the compounds of Formula (I) and Formula (II), and treatment methods employing such pharmaceutically acceptable prodrugs are also disclosed herein. The term "prodrug" means a precursor of a designated compound that, following administration to a subject, yields the compound *in vivo* via a chemical or physiological process such as solvolysis or enzymatic cleavage, or under physiological conditions (e.g., a prodrug on being brought to physiological pH is converted to the compound of Formula (I) or Formula (II)). A "pharmaceutically acceptable prodrug" is a prodrug that is non-toxic, biologically tolerable, and otherwise biologically suitable for administration to the subject. Illustrative procedures for the selection and preparation of suitable prodrug derivatives are described, for example, in "Design of Prodrugs", ed. H. Bundgaard, Elsevier, 1985.

[0086] Exemplary prodrugs include compounds having an amino acid residue, or a polypeptide chain of two or more (e.g., two, three or four) amino acid residues, covalently joined through an amide or ester bond to a free amino, hydroxy, or carboxylic acid group of a compound of Formula (I) or Formula (II). Examples of amino acid residues include the twenty naturally occurring amino acids, commonly designated by three letter symbols, as well as 4-hydroxyproline, hydroxylysine, demosine, isodemosine, 3-methylhistidine, norvalin, beta-alanine, gamma-aminobutyric acid, citrulline homocysteine, homoserine, ornithine and methionine sulfone.

[0087] Additional types of prodrugs may be produced, for instance, by derivatizing free carboxyl groups of structures of Formula (I) or Formula (II) as amides or alkyl esters. Examples of amides include those derived from ammonia, primary C_{1-6}alkyl amines and secondary di(C_{1-6}alkyl) amines. Secondary amines include 5- or 6-membered heterocycloalkyl or heteroaryl ring moieties. Examples of amides include those that are derived from ammonia, C_{1-3}alkyl primary amines, and di(C_{1-2}alkyl)amines. Examples of esters of the invention include C_{1-7}alkyl, C_{5-7}cycloalkyl, phenyl, and phenyl(C_{1-6}alkyl) esters. Preferred esters include methyl esters. Prodrugs may also be prepared by derivatizing free hydroxy groups using groups including hemisuccinates, phosphate esters, dimethylaminoacetates, and phosphoryloxymethyloxycarbonyls, following procedures such as those outlined in Fleisher et al., Adv. Drug Delivery Rev. 1996, 19, 115-130. Carbamate derivatives of hydroxy and amino groups may also yield prodrugs. Carbonate derivatives, sulfonate esters, and sulfate esters of hydroxy groups may also provide prodrugs. Derivatization of hydroxy groups as (acyloxy)methyl and (acyloxy)ethyl ethers, wherein the acyl group may be an alkyl ester, optionally substituted with one or more ether, amine, or carboxylic acid functionalities, or where the acyl group is an amino acid ester as described above, is also useful to yield prodrugs. Prodrugs of this type may be prepared as described in Robinson et al., J Med Chem. 1996, 39(I),10-18. Free amines can also be derivatized as amides, sulfonamides or phosphonamides. All of these prodrug moieties may incorporate groups including ether, amine, and carboxylic acid functionalities.

[0088] Also disclosed are pharmaceutically active metabolites of the compounds of Formula (I) or Formula (II), which may also be used in the methods disclosed herein. A "pharmaceutically active metabolite" means a pharmacologically active product of metabolism in the body of a compound of Formula (I) or Formula (II) or salt thereof. Prodrugs and active metabolites of a compound may be determined using routine techniques known or available in the art. See, e.g., Bertolini, et al., J Med Chem. 1997, 40, 2011-2016; Shan, et al., J Pharm Sci. 1997, 86 (7), 765-767; Bagshawe, Drug Dev Res. 1995, 34, 220-230; Bodor, Adv Drug Res. 1984, 13, 224-331; Bundgaard, Design of Prodrugs (Elsevier Press, 1985); and Larsen, Design and Application of Prodrugs, Drug Design and Development (Krogsgaard-Larsen, et al., eds., Harwood Academic Publishers, 1991).

[0089] The compounds of Formula (I) or Formula (II) and their pharmaceutically acceptable salts of the present invention are useful as modulators of the orexin receptor in the methods disclosed herein. As such modulators, the compounds may act as antagonists, agonists, or inverse agonists. The term "modulators" include both inhibitors and activators, where "inhibitors" refer to compounds that decrease, prevent, inactivate, desensitize or down-regulate orexin receptor expression or activity, and "activators" are compounds that increase, activate, facilitate, sensitize, or up-regulate orexin receptor expression or activity.

[0090] The term "treat" or "treating" as used herein is intended to refer to administration of an active agent or composition of the invention to a subject for the purpose of effecting a therapeutic or prophylactic benefit through modulation of orexin receptor activity. Treating includes reversing, ameliorating, alleviating, inhibiting the progress of, lessening the severity

of, or preventing a disease, disorder, or condition, or one or more symptoms of such disease, disorder or condition mediated through modulation of orexin receptor activity. The term "subject" refers to a mammalian patient in need of such treatment, such as a human.

[0091] Accordingly, the invention relates to compounds of Formula (I) or Formula (II) and their pharmaceutically acceptable salts for use in methods to treat subjects diagnosed with or suffering from a disease, disorder, or condition mediated by orexin receptor activity, such as: disorders of the sleep-wake cycle, metabolic disorders, neurological disorders and other disorders (e.g., feeding, drinking, arousal, stress, addiction, metabolism and reproduction). Symptoms or disease states are intended to be included within the scope of "medical conditions, disorders, or diseases."

[0092] Sleep disorders include, but are not limited to, sleep-wake transition disorders, insomnia, restless legs syndrome, jet-lag, disturbed sleep, and sleep disorders secondary to neurological disorders (e.g., manias, depressions, manic depression, schizophrenia, and pain syndromes (e.g., fibromyalgia, neuropathic).

[0093] Metabolic disorders include, but are not limited to, overweight or obesity and conditions related to overweight or obesity, such as insulin resistance, type II diabetes, hyperlipidemia, gallstones, angina, hypertension, breathlessness, tachycardia, infertility, sleep apnea, back and joint pain, varicose veins and osteoarthritis.

[0094] Neurological disorders include, but are not limited to, Parkinson's disease, Alzheimer's disease, Tourette's Syndrome, catatonia, anxiety, delirium and dementias.

[0095] Other disorders include, but are not limited to, ulcers, irritable bowel syndrome, diarrhea and gastroesophageal reflux.

[0096] In treatment methods disclosed herein, an effective amount of a pharmaceutical agent according to the invention is administered to a subject suffering from or diagnosed as having such a disease, disorder, or condition. An "effective amount" means an amount or dose sufficient to generally bring about the desired therapeutic or prophylactic benefit in patients in need of such treatment for the designated disease, disorder, or condition. Effective amounts or doses of the compounds of the present invention may be ascertained by routine methods such as modeling, dose escalation studies or clinical trials, and by taking into consideration routine factors, e.g., the mode or route of administration or drug delivery, the pharmacokinetics of the compound, the severity and course of the disease, disorder, or condition, the subject's previous or ongoing therapy, the subject's health status and response to drugs, and the judgment of the treating physician. An example of a dose is in the range of from about 0.001 to about 200 mg of compound per kg of subject's body weight per day, preferably about 0.05 to 100 mg/kg/day, or about 1 to 35 mg/kg/day, in single or divided dosage units (e.g., BID, TID, QID). For a 70-kg human, an illustrative range for a suitable dosage amount is from about 0.05 to about 7 g/day, or about 0.2 to about 2.5 g/day.

[0097] Once improvement of the patient's disease, disorder, or condition has occurred, the dose may be adjusted for preventative or maintenance treatment. For example, the dosage or the frequency of administration, or both, may be reduced as a function of the symptoms, to a level at which the desired therapeutic or prophylactic effect is maintained. Of course, if symptoms have been alleviated to an appropriate level, treatment may cease. Patients may, however, require intermittent treatment on a long-term basis upon any recurrence of symptoms.

[0098] In addition, the active agents of the invention may be used in combination with additional active ingredients in the treatment of the above conditions. The additional active ingredients may be coadministered separately with an active agent of compounds of Formula (I) or Formula (II) or included with such an agent in a pharmaceutical composition according to the invention. In an exemplary embodiment, additional active ingredients are those that are known or discovered to be effective in the treatment of conditions, disorders, or diseases mediated by orexin activity, such as another orexin modulator or a compound active against another target associated with the particular condition, disorder, or disease. The combination may serve to increase efficacy (e.g., by including in the combination a compound potentiating the potency or effectiveness of an active agent according to the invention), decrease one or more side effects, or decrease the required dose of the active agent according to the invention.

[0099] The active agents of the invention are used, alone or in combination with one or more additional active ingredients, to formulate pharmaceutical compositions of the invention. A pharmaceutical composition of the invention comprises: (a) an effective amount of at least one active agent in accordance with the invention; and (b) a pharmaceutically acceptable excipient.

[0100] A "pharmaceutically acceptable excipient" refers to a substance that is non-toxic, biologically tolerable, and otherwise biologically suitable for administration to a subject, such as an inert substance, added to a pharmacological composition or otherwise used as a vehicle, carrier, or diluent to facilitate administration of a agent and that is compatible therewith. Examples of excipients include calcium carbonate, calcium phosphate, various sugars and types of starch, cellulose derivatives, gelatin, vegetable oils, and polyethylene glycols.

Delivery forms of the pharmaceutical compositions containing one or more dosage units of the active agents may be prepared using suitable pharmaceutical excipients and compounding techniques known or that become available to those skilled in the art. The compositions may be administered by a suitable route of delivery, e.g., oral, parenteral, rectal, topical, or ocular routes, or by inhalation.

[0101] The preparation may be in the form of tablets, capsules, sachets, dragees, powders, granules, lozenges,

powders for reconstitution, liquid preparations, or suppositories. Preferably, the compositions are formulated for intravenous infusion, topical administration, or oral administration.

[0102] For oral administration, the compounds of the invention can be provided in the form of tablets or capsules, or as a solution, emulsion, or suspension. To prepare the oral compositions, the compounds may be formulated to yield a dosage of, e.g., from about 0.05 to about 100 mg/kg daily, or from about 0.05 to about 35 mg/kg daily, or from about 0.1 to about 10 mg/kg daily. For example, a total daily dosage of about 5 mg to 5 g daily may be accomplished by dosing once, twice, three, or four times per day.

[0103] Oral tablets may include a compound according to the invention mixed with pharmaceutically acceptable excipients such as inert diluents, disintegrating agents, binding agents, lubricating agents, sweetening agents, flavoring agents, coloring agents and preservative agents. Suitable inert fillers include sodium and calcium carbonate, sodium and calcium phosphate, lactose, starch, sugar, glucose, methyl cellulose, magnesium stearate, mannitol, sorbitol, and the like. Exemplary liquid oral excipients include ethanol, glycerol, water, and the like. Starch, polyvinyl-pyrrolidone (PVP), sodium starch glycolate, microcrystalline cellulose, and alginic acid are suitable disintegrating agents. Binding agents may include starch and gelatin. The lubricating agent, if present, may be magnesium stearate, stearic acid or talc. If desired, the tablets may be coated with a material such as glyceryl monostearate or glyceryl distearate to delay absorption in the gastrointestinal tract, or may be coated with an enteric coating.

[0104] Capsules for oral administration include hard and soft gelatin capsules. To prepare hard gelatin capsules, compounds of the invention may be mixed with a solid, semi-solid, or liquid diluent. Soft gelatin capsules may be prepared by mixing the compound of the invention with water, an oil such as peanut oil or olive oil, liquid paraffin, a mixture of mono and di-glycerides of short chain fatty acids, polyethylene glycol 400, or propylene glycol.

[0105] Liquids for oral administration may be in the form of suspensions, solutions, emulsions or syrups or may be lyophilized or presented as a dry product for reconstitution with water or other suitable vehicle before use. Such liquid compositions may optionally contain: pharmaceutically-acceptable excipients such as suspending agents (for example, sorbitol, methyl cellulose, sodium alginate, gelatin, hydroxyethylcellulose, carboxymethylcellulose, aluminum stearate gel and the like); non-aqueous vehicles, e.g., oil (for example, almond oil or fractionated coconut oil), propylene glycol, ethyl alcohol, or water; preservatives (for example, methyl or propyl p-hydroxybenzoate or sorbic acid); wetting agents such as lecithin; and, if desired, flavoring or coloring agents.

[0106] The active agents of this invention may also be administered by non-oral routes. For example, the compositions may be formulated for rectal administration as a suppository. For parenteral use, including intravenous, intramuscular, intraperitoneal, or subcutaneous routes, the compounds of the invention may be provided in sterile aqueous solutions or suspensions, buffered to an appropriate pH and isotonicity or in parenterally acceptable oil. Suitable aqueous vehicles include Ringer's solution and isotonic sodium chloride. Such forms will be presented in unit-dose form such as ampules or disposable injection devices, in multi-dose forms such as vials from which the appropriate dose may be withdrawn, or in a solid form or pre-concentrate that can be used to prepare an injectable formulation. Illustrative infusion doses may range from about 1 to 1000 μg/kg/minute of compound, admixed with a pharmaceutical carrier over a period ranging from several minutes to several days.

[0107] For topical administration, the compounds may be mixed with a pharmaceutical carrier at a concentration of about 0.1% to about 10% of drug to vehicle. Another mode of administering the compounds of the invention may utilize a patch formulation to affect transdermal delivery.

[0108] Compounds of the invention may alternatively be administered by inhalation, via the nasal or oral routes, e.g., in a spray formulation also containing a suitable carrier.

[0109] Exemplary compounds useful in methods disclosed herein will now be described by reference to the illustrative synthetic schemes for their general preparation below and the specific examples that follow. Artisans will recognize that, to obtain the various compounds herein, starting materials may be suitably selected so that the ultimately desired substituents will be carried through the reaction scheme with or without protection as appropriate to yield the desired product. Alternatively, it may be necessary or desirable to employ, in the place of the ultimately desired substituent, a suitable group that may be carried through the reaction scheme and replaced as appropriate with the desired substituent. Unless otherwise specified, the variables are as defined above in reference to Formula (I). Reactions may be performed between the melting point and the reflux temperature of the solvent, and preferably between 0 °C and the reflux temperature of the solvent. Reactions may be heated employing conventional heating or microwave heating. Reactions may also be conducted in sealed pressure vessels above the normal reflux temperature of the solvent.

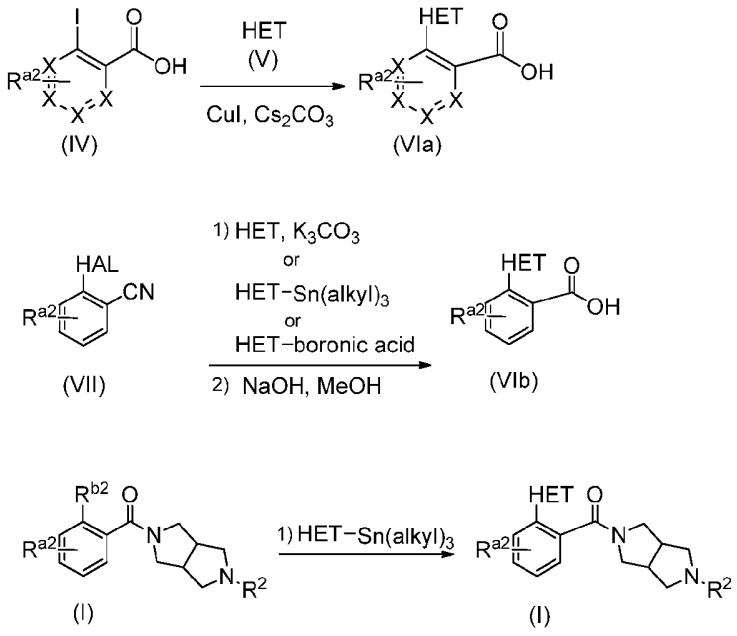
Abbreviations and acronyms used herein include the following:

Term	Acronym
High-performance liquid chromatography	HPLC
Thin layer chromatography	TLC

(continued)

Term	Acronym
Diisopropylethylamine	DIPEA
Tetrahydrofuran	THF
tert-Butylcarbamoyl	BOC
Carboxybenzyl	CBz
Dichloromethane	DCM
Trifluoroacetic acid	TFA
Acetic Acid	HOAc
N,N-Dimethylformamide	DMF
Methanol	MeOH
Isopropanol	IPA
Ethanol	EtOH
Acetonitrile	ACN
Ethyl Acetate	EtOAc, or EA
Triethylamine	TEA
2-(1H-9-Azobenzotriazole-1-yl)-1,1,3,3-tetramethylaminium hexafluorophosphate	HATU
1-Hydroxy-7-azabenzotriazole	HOAT
Methyl Tertiary Butyl Ether	MTBE
N-(3-Dimethylaminopropyl)-N-ethylcarbodiimide	EDCI
[1,1'-Bis(diphenylphosphino)ferrocene]palladium(II) Dichloride Dichloromethane Adduct	$PdCl_2$(dppf)-dcm adduct

SCHEME A



[0110] Intermediate compounds of formulae (Via) and (VIb) are readily prepared as outlined in Scheme A from a commercially available or synthetically accessible compound of formula (IV). Compounds of formula (Via) are obtained

by reacting a compound of formula (IV), where R^{a2} is -H, halo, -C_{1-4}alkyl, -C_{1-4}alkoxy, -NO_2, -$NHCOCH_3$, or two R^{a2} members may come together to form a 6-membered aryl ring, where X is C or N (with the proviso that only one X member can be N), with commercially available HET compounds of formula (V), where

HET is a 5-6 membered heteroaryl ring containing one to three nitrogen members, in the presence of copper(I)iodide, Cs_2CO_3 and N,N'-dimethylcyclohexane-1,2-diamine; in a solvent such as DMF or dioxane, at temperatures ranging from 60 °C to 100 °C (using conventional or microwave heating). One skilled in the art will recognize that 1,2,3-triazole can exist in two tautomeric forms defined as 2H-[1,2,3]triazole and 1 H-[1,2,3]triazole thus accounting for the formation of two regioisomers.

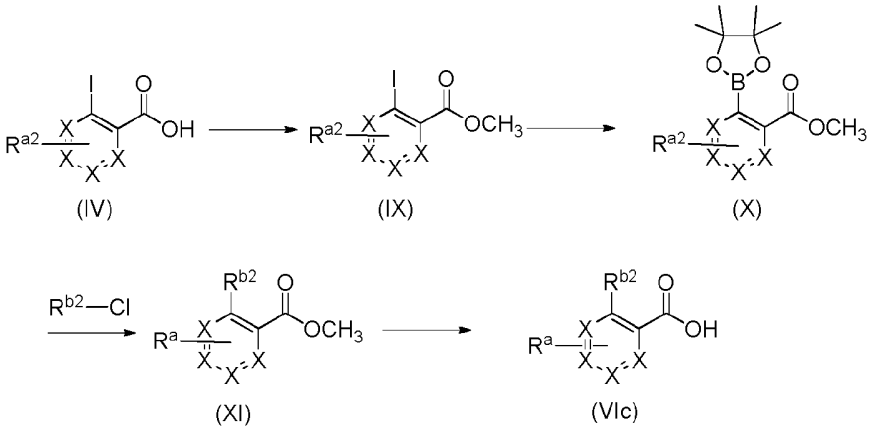
[0111] Alternatively, compounds of formula (VIb) are prepared by the reaction of halobenzonitrile compounds of formula (VII) with HET, where HET is a 5-membered heteroaryl ring selected from the group consisting of triazole or pyrazole, in a solvent such as DMF and the like, in the presence of an inorganic base such as K_2CO_3 and the like, at temperatures ranging from 100 °C to 130 °C. Subsequent hydrolysis of the nitrile using a base such as aqueous NaOH and the like, in a solvent such as methanol provides compounds of formula (VIb).

[0112] Compounds of formula (VIb) are also prepared by the reaction of halobenzonitrile compounds of formula (VII) with HET-Sn(alkyl)$_3$, where HET-Sn(alkyl)$_3$ is a commercially available or synthetically accessible trialkyltinheteroaryl compound, in a solvent such as DME, in the presence of a palladium catalyst such as $Pd(PPh_3)_4$, in the presence or absence of a catalytic amount of copper iodide, at temperatures ranging from 100 °C to 160 °C, using conventional or microwave heating. Subsequent hydrolysis of the nitrile using a base such as aqueous NaOH and the like, in a solvent such as methanol provides compounds of formula (VIb).

[0113] Compounds of formula (VIb) are also prepared by the reaction of halobenzonitrile compounds of formula (VII) with HET-boronic acid, where HET-boronic acid is a commercially available or synthetically accessible heteroarylboronic acid, in a solvent such as DME, in the presence of a base such as $NaHCO_3$, a palladium catalyst such as $Pd(PPh_3)_4$, at temperatures ranging from 80 °C to the reflux temperature of the solvent. Subsequent hydrolysis using a base such as aqueous NaOH and the like, in a solvent such as methanol provides compounds of formula (VIb).

[0114] Compounds of formula (I), where R^{b2} is -I, are further elaborated to compounds of formula (I), where R^{b2} is HET, where HET is a 5-6 membered heteroaryl ring containing one to three nitrogen atoms optionally containing one oxygen member. Reaction of compounds of formula (I), where R^{b2} is -I, with HET-Sn(alkyl)$_3$, where HET-Sn(alkyl)$_3$ is a commercially available or synthetically accessible trialkyltinheteroaryl compound, in a solvent such as DME, in the presence of a palladium catalyst such as $Pd(PPh_3)_4$, in the presence or absence of a catalytic amount of copper iodide, at temperatures ranging from 100 °C to 160 °C, using conventional or microwave heating, provides compounds of formula (I).

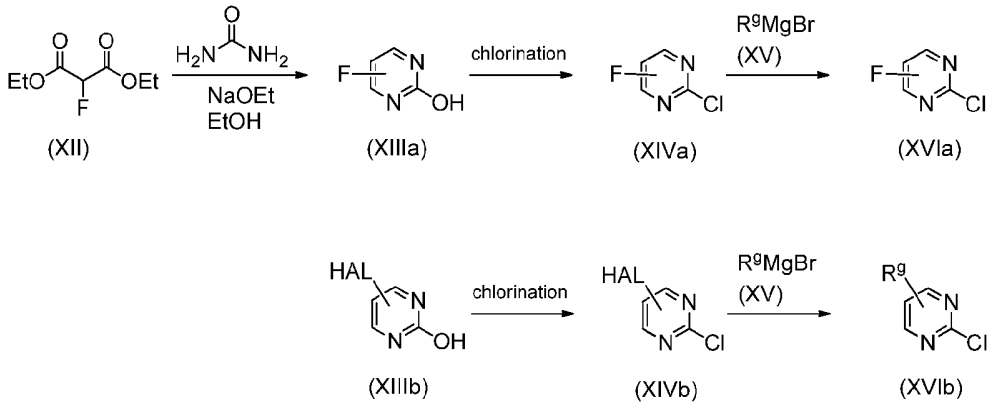
SCHEME B



[0115] According to Scheme B, compounds of formula (VIc) are obtained from compounds of formula (IV), by first converting a commercially available or synthetically accessible compound of formula (IV), where R^{a2} is -H, halo, -C_{1-4}alkyl, -C_{1-4}alkoxy, -CF_3, or -NO_2, and where X is C or N (with the proviso that only one X may be N) to one of formula (IX) under esterification conditions, for example by treating an alcohol solution of a compound of formula (IV) with an acid. In a preferred method the compound of formula (IV) is dissolved in a solvent such as MeOH and treated with H_2SO_4 to afford a compound of formula (IX). A compound of formula (X) is obtained by reacting a suitable compound of formula (IX) with pinacol borane in the presence of a phosphine and a palladium catalyst, in the presence of an amine base, in a solvent such as THF, at temperatures ranging from room temperature to 70 °C. In a preferred method the phosphine is tri(o-tolyl)phosphine, the palladium catalyst is $Pd(OAc)_2$ and the amine base is triethylamine.

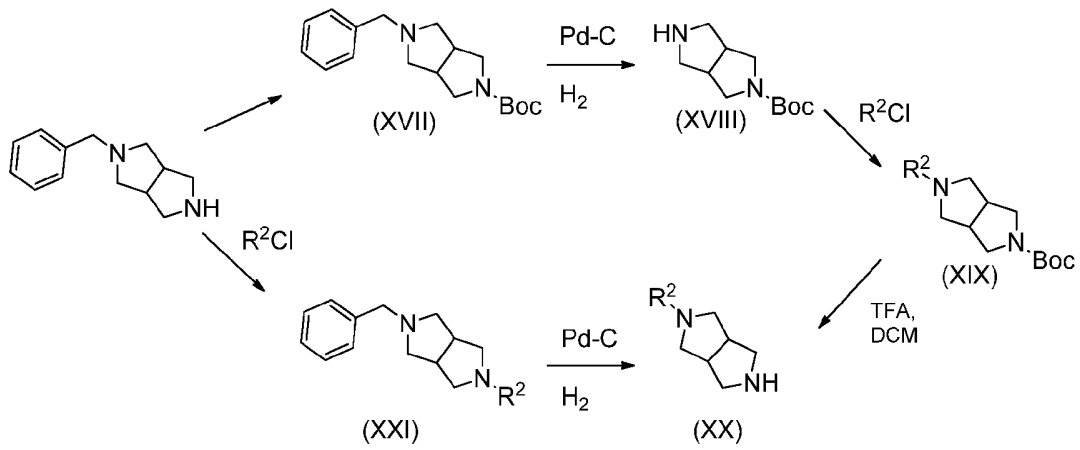
[0116] A compound of formula (VIc) is obtained by reacting a compound of formula (X) with a compound R^{b2}-Cl, where R^{b2}-Cl is a suitable commercially available or synthetically accessible 6-membered chloro-substituted heteroaryl compound, in the presence of a palladium catalyst, a base such as Na_2CO_3, and the like, in a solvent such as 2-methyl-tetrahydrofuran (2-methyl-THF), and the like, at temperatures ranging from room temperature to 80 °C. In a preferred method the palladium catalyst is $PdCl_2$(dppf)-dcm adduct, the base is Na_2CO_3 and the solvent is 2-methyl-THF. A compound of formula (VIc) is obtained from a compound of formula (XI) via ester hydrolysis. In a preferred method of hydrolysis, a compound of formula (XI) in methyl-THF is treated with aqueous NaOH to afford a compound of formula (VIc).

SCHEME C



[0117] According to SCHEME C, substituted heteroaryl compounds R^2Cl of formula (XIVa) and (XVIb) are prepared from commercially available or synthetically accessible compounds of formula (XIIIa) or (XIIIb). Pyrimidols of formula (XIIIa) or formula (XIIIb) are commercially available or are prepared by reacting substituted alkyl malonates of formula (XII), where R^e is halo, with urea in the presence of a base such as sodium ethoxide and the like; in a suitable solvent such as ethanol, at temperatures between room temperature and the reflux temperature of the solvent. Chlorination of commercially available pyrimidinols of formula (XIIIb) or synthetically accessible compounds of formula (XIIIa) using a chlorinating agent such as oxalyl chloride and the like; in a solvent such as CH_2Cl_2, in the presence of a base such as N,N-dimethylaniline and the like; at temperatures ranging between room temperature and the reflux temperature of the solvent provides chloropyrimidines of formula (XIVa) or (XIVb). Additionally, chloropyrimidines of formula (XIVa) or (XIVb) are further elaborated. Chloropyrimidines of formula (XIVa) or (XIVb) are reacted with Grignard reagents (R^9MgBr) of formula (XV); in the presence of a catalytic amount of Fe(acac)$_3$, in a solvent such as Et_2O at 0 °C, provides alkyl chloropyrimidines of formula (XVIa) or (XVIb).

SCHEME D

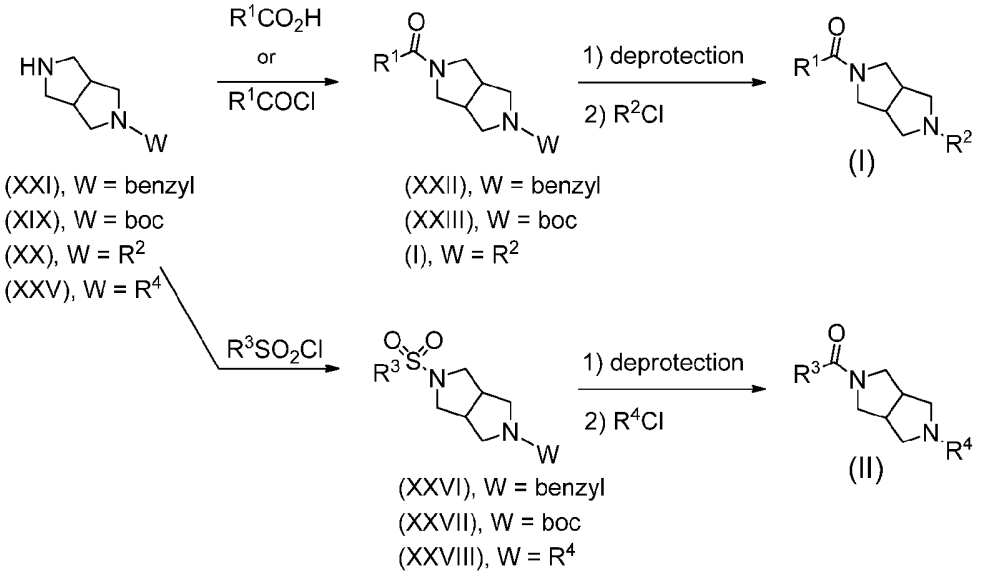


[0118] According to Scheme D, compounds of formula (XX) are obtained from synthetically accessible or commercially available 2-benzyl-octahydro-pyrrolo[3,4-c]pyrrole by first protecting the secondary nitrogen of 2-benzyloctahydro-pyrrolo[3,4-c]pyrrole as a carbamate. In a preferred embodiment the carbamate is the *tert*-butylcarbamate (boc) which is

introduced by treating 2-benzyl-octahydro-pyrrolo[3,4-c]pyrrole with di-*tert*-butyl-dicarbonate, in a solvent such as DCM, affording compound (XVII). Compound (XVIII) is obtained from treating compound (XVII) with hydrogen gas, in the presence of a catalyst. In a particularly preferred embodiment the catalyst is Pd on carbon, in a solvent such as MeOH in the presence of AcOH. A compound of formula (XIX) is obtained by treating compound (XVIII) with a compound of formula R^2Cl, where R^2 is as defined in formula (I). Commercially available or synthetically accessible appropriately heteroaryl compounds of formula R^2Cl are reacted with compound (XVIII) in the presence of a suitably selected tertiary organic or inorganic base such as Cs_2CO_3, Na_2CO_3, TEA, and the like; in a solvent such as DMF, dichloromethane, THF, n-butanol, and the like; at a temperature between room temperature and the reflux temperature of the solvent, using conventional or microwave heating, to afford compounds of formula (XIX). In a preferred embodiment the base is Cs_2CO_3 and the solvent is DMF. Removal of the *tert*-butylcarbamate (boc) in compounds of formula (XIX) is accomplished by using methods known to one skilled in the art, such as, HCl, TFA, or p-toluenesulfonic acid, in a solvent such as CH_3OH, dioxane, or CH_2Cl_2. In a preferred embodiment, a compound of formula (XIX) is treated with TFA in DCM or HCl to afford a compound of formula (XX).

[0119] Compounds of formula (XX) are also obtained from 2-benzyl-octahydropyrrolo[3,4-c]pyrrole. Referring to Scheme D, 2-benzyl-octahydro-pyrrolo[3,4-c]pyrrole is treated with R^2Cl, where R^2 is as defined in a compound of formula (I). Commercially available or synthetically accessible suitably substituted heteroaryl compounds of formula R^2Cl are reacted with compound 2-benzyloctahydro-pyrrolo[3,4-c]pyrrole in the presence of a tertiary organic or inorganic base such as Cs_2CO_3, Na_2CO_3, TEA, and the like; in a solvent such as DMF, dichloromethane, THF, and the like; at a temperature between room temperature and the reflux temperature of the solvent to afford a compound of formula (XXI). In a preferred embodiment the base is Cs_2CO_3 and the solvent is DMF. A compound of formula (XX) is obtained by treating a compound of formula (XXI) with hydrogen gas, in the presence of a catalyst, in a solvent such as AcOH. In a preferred embodiment the catalyst is Pd on carbon.

SCHEME E



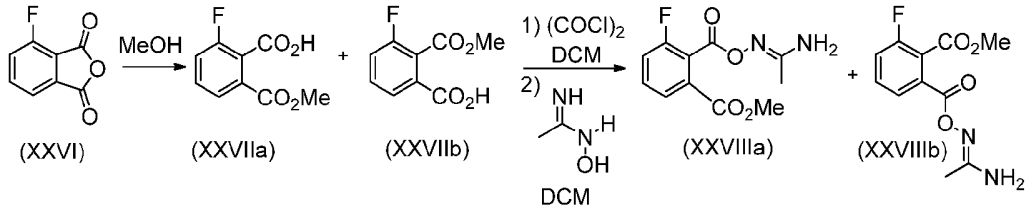
[0120] Referring to Scheme E, a compound of formula (I) is obtained from a compound of formula (XIX), (XX), or (XXI) by reacting a compound of formula (XIX), (XX), or (XXI) with a compound of formula R^1CO_2H under amide formation conditions. Compounds of formula R^1CO_2H, where R^1 is as defined in formula (I), are commercially available, as described, or synthetically accessible appropriately substituted aryl or heteroaryl carboxylic acids. In a preferred embodiment a compound of formula (XIX), (XX), or (XXI), either as a free base or as an acid salt, is reacted with a compound of formula R^1CO_2H, in the presence of a dehydrating agent such as HOBt/EDAC, CDI, HATU, HOAT; a suitably selected base such as DIPEA, TEA, and the like; in an organic solvent or mixture thereof, such as toluene, acetonitrile, ethyl acetate, DMF, THF, methylene chloride, and the like; to afford a compound of formula (XXII), (XXIII) or (I). In a particularly preferred embodiment the dehydrating agent is HATU, and the base is DIPEA.

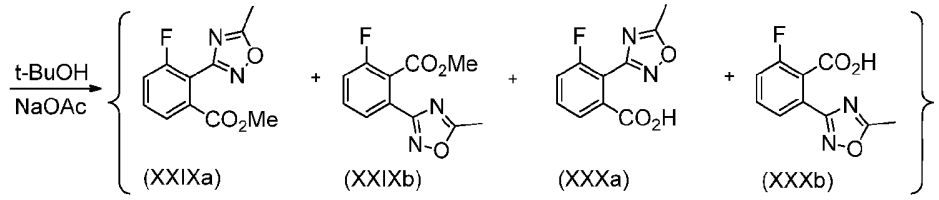
[0121] In an alternative embodiment, a compound of formula R^1CO_2H (as described above) may be first converted to a compound of formula R^1COCl, or compound of formula R^1COCl is a commercially available substituted aryl sulfonyl

chloride. In a preferred embodiment, a compound of formula R^1CO_2H is treated with thionyl chloride in a solvent such as toluene to afford a compound of formula R^1COCl. A compound of formula (I) is obtained by treating a compound of formula R^1COCl with a compound of formula (XIX), (XX), or (XXI), a suitably selected tertiary organic base such as TEA, and the like, in a solvent such as dichloromethane, THF, and the like, at a temperature between room temperature and the reflux temperature of the solvent. A compound of formula (II) is obtained by treating a compound of formula R^1SO_2Cl with a compound of formula (XIX), (XXI), or (XXV), where R^4 is (5-trifluoromethyl)-pyridin-2-yl, (5-trifluoromethyl)-pyrimidin-2-yl, 4,6-dimethylpyrimidin-2-yl, or quinoxalin-2-yl; a suitably selected tertiary organic base such as TEA, and the like, in a solvent such as dichloromethane, THF, and the like, at a temperature between room temperature and the reflux temperature of the solvent.

[0122] Referring to Scheme E, one skilled in the art will recognize that the sequence of transformations shown in Schemes D and E may be reordered such that amide bond formation may be the initial reaction to give compounds of formulae (XXII) and (XXIII). Removal of the N-benzyl group from a compound of formulae (XXII) or removal of the carbamate from a compound of formula (XXIII) followed by the reaction with a compound R^2Cl, where R^2Cl is as described above gives a compound of formula (I).

SCHEME F

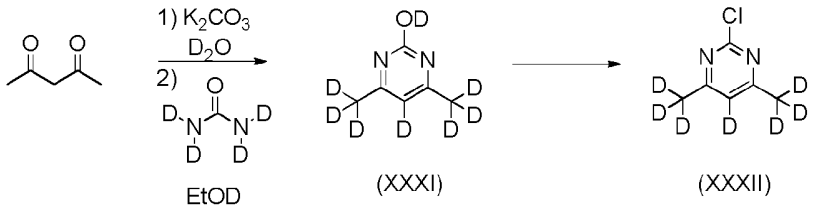




[0123] 3-Fluoro-2-(3-methyl-1,2,4-oxadiazol-5-yl)benzoic acid and 2-fluoro-6-(3-methyl-1,2,4-oxadiazol-5-yl)benzoic acid are prepared according to SCHEME H. 3-Fluorophthalic anhydride was dissolved in a solvent such as MeOH, at temperatures ranging from room temperature to the reflux temperature of the solvent, to provide acid-esters (XXVIIa) and (XXIIb). Conversion of the acid to the acid chloride is accomplished under standard chlorination conditions. In a preferred method the acid is heated with oxalyl chloride in a solvent such as DCM. Subsequent reaction of the acid chloride with N-hydroxyacetamide in a solvent such as CH_2Cl_2 provides a mixture of esters (XXVIIIa) and (XXVIIIb). Finally, esters (XXVIIIa) and (XXVIIIb) are converted to a mixture of esters (XXIXa) and (XXIXb) and acids (XXXa) and (XXXb) by treatment with a base, preferably sodium acetate, in the presence of a solvent, preferably t-BuOH.

[0124] Alternately, acid (XXXa) is prepared by first converting 2-fluoro-6-iodobenzoic acid to the acid chloride by reaction with a chlorinating agent such as oxalyl chloride, in a solvent such as DCM, with a catalytic amount of DMF, at a temperature of 0 °C. Subsequent reaction of the acid chloride with N-hydroxyacetamide in a solvent such as CH_2Cl_2 provides (Z)-N'-((2-fluoro-6-iodobenzoyl)oxy)acetimidamide. 5-(2-Fluoro-6-iodophenyl)-3-methyl-1,2,4-oxadiazole is prepared by reacting (Z)-N'-((2-fluoro-6-iodobenzoyl)oxy)acetimidamide with sodium acetate, in a solvent such as tert-butanol, at temperatures ranging from 100 °C to 110 °C. 3-Fluoro-2-(3-methyl-1,2,4-oxadiazol-5-yl)benzoic acid (XXXa) is prepared by reacting 5-(2-fluoro-6-iodophenyl)-3-methyl-1,2,4-oxadiazole with a grignard reagent such as i-PrMgCl, in a suitable solvent such as THF and the like, at a temperature of -78 °C. Subsequent addition of CO_2 gas, at a temperature of -78 °C provides 3-fluoro-2-(3-methyl-1,2,4-oxadiazol-5-yl)benzoic acid (XXXa).

SCHEME H



[0125] Deuterated pyrimidine compounds of formula (XXXII) are prepared according to Scheme H. Acetylacetone is reacted with an inorganic base such as K_2CO_3 in deuterated water, at temperatures ranging from 100 °C to 120 °C to provide 1,1,1,3,3,3,5,5-octadeuteriopentane-2,4-dione. 1,1,1,3,3,3,5,5-Octadeuteriopentane-2,4-dione is subsequently reacted with deuterated urea, in a solvent such as deuterated ethanol, 35% wt. DCl in D_2O, at temperatures ranging from 90 °C to 100 °C to provide deuterated pyrimidinols of formula (XXXI). Chlorination under standard chlorinating conditions provides chlorodetuteratedpyrimidine compounds of formula (XXXII).

[0126] Compounds of formula (I) may be converted to their corresponding salts using methods known to those skilled in the art. For example, amines of formula (I) may be treated with trifluoroacetic acid (TFA), HCl, maleic acid, or citric acid in a solvent such as diethyl ether (Et_2O), CH_2Cl_2, tetrahydrofuran (THF), or methanol (MeOH) to provide the corresponding salt forms. In a particularly preferred embodiment the acid is HCl and the solvent is isopropanol.

[0127] Compounds prepared according to the schemes described above may be obtained as single enantiomers, diastereomers, or regioisomers, by enantio-, diastero-, or regiospecific synthesis, or by resolution. Compounds prepared according to the schemes above may alternately be obtained as racemic (1:1) or non-racemic (not 1:1) mixtures or as mixtures of diastereomers or regioisomers. Where racemic and non-racemic mixtures of enantiomers are obtained, single enantiomers may be isolated using conventional separation methods known to one skilled in the art, such as chiral chromatography, recrystallization, diastereomeric salt formation, derivatization into diastereomeric adducts, biotransformation, or enzymatic transformation. Where regioisomeric or diastereomeric mixtures are obtained, single isomers may be separated using conventional methods such as chromatography or crystallization.

[0128] The following examples are provided to further illustrate the invention and various preferred embodiments.

EXAMPLES

Chemistry:

[0129] In obtaining the compounds described in the examples below and the corresponding analytical data, the following experimental and analytical protocols were followed unless otherwise indicated.

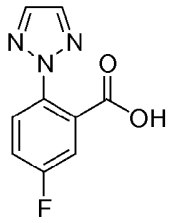
Unless otherwise stated, reaction mixtures were magnetically stirred at room temperature (rt) under a nitrogen atmosphere. Where solutions were "dried," they were generally dried over a drying agent such as Na_2SO_4 or $MgSO_4$. Where mixtures, solutions, and extracts were "concentrated", they were typically concentrated on a rotary evaporator under reduced pressure. Reactions under microwave irradiation conditions were carried out in a Biotage Initiator or CEM Discover instrument.

[0130] Normal-phase flash column chromatography (FCC) was performed on silica gel (SiO_2) using prepackaged cartridges, eluting with the indicated solvents. Preparative reverse-phase high performance liquid chromatography (HPLC) was performed on a Gilson HPLC with an Xterra Prep RP_{18} or an XBridge C18 OBD (5 μm, 30 x 100 mm, or 50 X 150 mm) column, and a gradient of 10 to 99% acetonitrile/water (20 mM NH_4OH) over 12 to 18 min, and a flow rate of 30 mL/min. Mass spectra (MS) were obtained on an Agilent series 1100 MSD using electrospray ionization (ESI) in positive mode unless otherwise indicated. Calculated (calcd.) mass corresponds to the exact mass. Nuclear magnetic resonance (NMR) spectra were obtained on Bruker model DRX spectrometers. The format of the ^1H NMR data below is: chemical shift in ppm downfield of the tetramethylsilane reference (multiplicity, coupling constant J in Hz, integration).

[0131] Chemical names were generated using ChemDraw Ultra 6.0.2 (CambridgeSoft Corp., Cambridge, MA) or ACD/Name Version 9 (Advanced Chemistry Development, Toronto, Ontario, Canada).

Intermediate 1: 5-Fluoro-2-[1,2,3]triazol-2-yl-benzoic acid.

[0132]

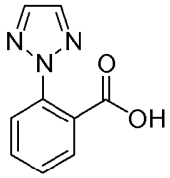


[0133] 5-Fluoro-2-[1,2,3]triazol-2-yl-benzoic acid. To a solution of 5-fluoro-2-iodo-benzoic acid (3.86 g, 14.65 mmol), 2H-[1,2,3]triazole (2.5 g, 36.2 mmol), Cs_2CO_3 (8.62 g, 24.5 mmol), *trans*-N,N'-dimethyl-cyclohexane-1,2-diamine (0.4 mL), CuI (244 mg) and DMF (13 mL) were added to a microwave ready vessel and heated to 100 °C for 10 min. The mixture was cooled, diluted with water, and extracted with EtOAc. The aqueous layer was acidified and extracted with EtOAc. The organic layer was dried over Na_2SO_4 and concentrated. Chromatography (DCM to 10% MeOH/1% HOAc/DCM) gave the product as a white powder (2.14 g, 71%). ^{1}H NMR (400 MHz, CD_3OD): 7.91 (s, 2H), 7.76 (dd, *J* = 8.9, 4.8 Hz, 1 H), 7.59 (dd, *J* = 8.5, 2.9 Hz, 1 H), 7.49 - 7.42 (m, 1 H).

[0134] Intermediates 2-12 were prepared in a manner analogous to Intermediate 1.

Intermediate 2: 2-[1,2,3]Triazol-2-yl-benzoic acid.

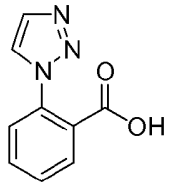
[0135]



[0136] The title compound was prepared in a manner analogous to Intermediate 1, substituting 2-iodobenzoic acid for 5-fluoro-2-iodo-benzoic acid. Two products were formed in this reaction, 2-[1,2,3]triazol-2-yl-benzoic acid and 2-[1,2,3]triazol-1-yl-benzoic acid, as a result of the tautomeric forms of 1,2,3-triazole. ^{1}H NMR (400 MHz, CD_3OD): 7.91 (s, 2H), 7.85 - 7.82 (m, 1 H), 7.75 (dd, *J* = 8.1, 1.0 Hz, 1 H), 7.69 (td, *J* = 7.7, 1.5 Hz, 1 H), 7.60 - 7.55 (m, 1 H).

Intermediate 3: 2-[1,2,3]Triazol-1-yl-benzoic acid.

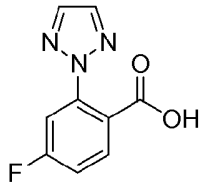
[0137]



[0138] The title compound was isolated from the synthesis of Intermediate 2. ^{1}H NMR (400 MHz, CD_3OD): 6.70 (d, *J* = 0.9 Hz, 1 H), 6.50 (dd, *J* = 7.7, 1.5 Hz, 1 H), 6.30 (d, *J* = 1.0 Hz, 1 H), 6.24.6.18 (m, 1 H), 6.17 -6.11 (m, 1 H), 6.01 (dd, *J* = 7.8, 1.0 Hz, 1H).

Intermediate 4: 4-Fluoro-2-[1,2,3]triazol-2-yl-benzoic acid.

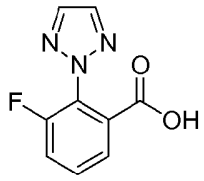
[0139]



[0140] The title compound was prepared in a manner analogous to Intermediate 1, substituting for 4-fluoro-2-iodo-benzoic acid for 5-fluoro-2-iodo-benzoic acid in Step A. ^{1}H NMR (400 MHz, CD_3OD): 7.93 (s, 2H), 7.88 (dd, *J* = 8.7, 5.9 Hz, 1H), 7.56 (dd, *J* = 9.2, 2.5 Hz, 1 H), 7.38-7.30 (m, 1 H).

Intermediate 5: 3-Fluoro-2-[1,2,3]triazol-2-yl-benzoic acid.

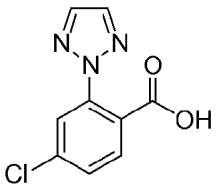
[0141]



[0142] The title compound was prepared in a manner analogous to Intermediate 1, substituting for 3-fluoro-2-iodo-benzoic acid for 5-fluoro-2-iodo-benzoic acid in Step A. ^{1}H NMR (400 MHz, CD_3OD): 7.93 (s, 2H), 7.81 (d, *J* = 8.3 Hz, 1 H), 7.63-7.58 (m, 1 H), 7.29 (td, *J* = 8.9, 0.9 Hz, 1 H).

Intermediate 6: 4-Chloro-2-[1,2,3]triazol-2-yl-benzoic acid.

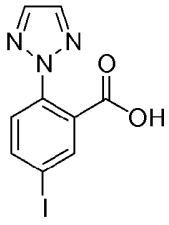
[0143]



[0144] The title compound was prepared in a manner analogous to Intermediate 1, substituting 4-chloro-2-iodo-benzoic acid for 5-fluoro-2-iodo-benzoic acid in Step A. ^{1}H NMR (400 MHz, CD_3OD): 7.93 (s, 2H), 7.84 - 7.78 (m, 2H), 7.59 (dd, *J* = 8.3, 2.1 Hz, 1 H).

Intermediate 7: 5-Iodo-2-[1,2,3]triazol-2-yl-benzoic acid.

[0145]

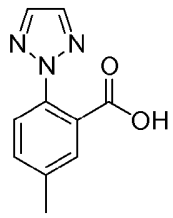


[0146] The title compound was prepared in a manner analogous to Intermediate 1, substituting 2-bromo-5-iodobenzoic acid for 5-fluoro-2-iodo-benzoic acid in Step A. ^{1}H NMR (400 MHz, CD_3OD): 8.09 (d, *J* = 2.0, 1 H), 8.03 - 7.97 (m, 1 H),

7.95 - 7.86 (m, 3H), 7.53 (d, *J* =8.4, 1 H).

Intermediate 8: 5-Methyl-2-[1,2,3]triazol-2-yl-benzoic acid.

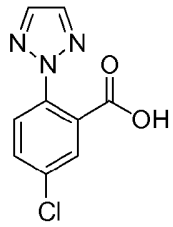
[0147]



[0148] The title compound was prepared in a manner analogous to Intermediate 1, substituting for 2-iodo-5-methyl benzoic acid for 5-fluoro-2-iodo-benzoic acid in Step A. ^{1}H NMR (400 MHz, CD_3OD): 7.87 (s 2H), 7.66 (d, *J* = 1.3 Hz, 1H), 7.59 (d, *J* = 8.2 Hz, 1 H), 7.53 - 7.46 (m, 1 H), 2.45 (s, 3H).

Intermediate 9: 5-Chloro-2-[1,2,3]triazol-2-yl-benzoic acid.

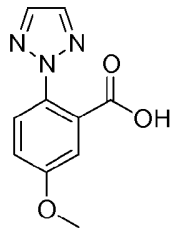
[0149]



[0150] The title compound was prepared in a manner analogous to Intermediate 1, substituting 5-chloro-2-iodo-benzoic acid for 5-fluoro-2-iodo-benzoic acid in Step A. ^{1}H NMR (400 MHz, CD_3OD): 7.91 (s, 2H), 7.82 - 7.74 (m, 2H), 7.71-7.66 (m, 1 H).

Intermediate 10: 5-Methoxy-2-[1,2,3]triazol-2-yl-benzoic acid.

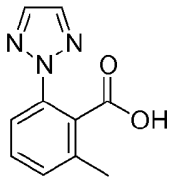
[0151]



[0152] The title compound was prepared in a manner analogous to Intermediate 1, substituting for 2-iodo-5-methoxy benzoic acid for 5-fluoro-2-iodo-benzoic acid in Step A. ^{1}H NMR (400 MHz, CD_3OD): 7.81 (s, *J* = 6.4, 2H), 7.55 (d, *J* = 8.8, 1H), 7.33 (d, *J* = 2.9, 1 H), 7.18 (dd, *J* = 8.8, 2.9, 1 H), 3.85 (s, 3H).

Intermediate 11: 2-Methyl-6-[1,2,3]triazol-2-yl-benzoic acid.

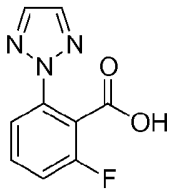
[0153]



[0154] The title compound was prepared in a manner analogous to Intermediate 1, substituting for 2-iodo-6-methyl benzoic acid for 5-fluoro-2-iodo-benzoic acid in Step A. ^{1}H NMR (400 MHz, CD_3OD): 7.89 (s, 2H), 7.72 (d, *J* = 8.1 Hz, 1 H), 7.48 (t, *J* = 7.9 Hz, 1 H), 7.36 (d, *J* = 7.7 Hz, 1 H), 2.46 (s, 3H).

Intermediate 12: 2-Fluoro-6-[1,2,3]triazol-2-yl-benzoic acid.

[0155]

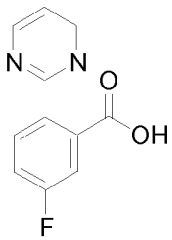


[0156] Method A: The title compound was prepared in a manner analogous to Intermediate 1, substituting 2-fluoro-6-iodo-benzoic acid for 5-fluoro-2-iodo-benzoic acid. ^{1}H NMR (400 MHz, CD_3OD): 7.96 (s, 2H), 7.87 - 7.82 (m, 1 H), 7.70 (td, *J* = 8.1, 5.1 Hz, 1 H), 7.59 (ddd, *J* = 9.7, 8.4, 1.4 Hz, 1 H).

[0157] Method B: 2-Fluoro-6-[1,2,3]triazol-2-yl-benzoic acid. To a 2 L, 3-necked, round-bottomed flask equipped with an overhead mechanical stirrer, thermocouple probe, heating mantle, reflux condenser, and nitrogen inlet were added 2-fluoro-6-iodobenzoic acid (127.6 g, 480 mmol), copper iodide (4.57 g, 24 mmol), and Cs_2CO_3 (312.6 g, 959 mmol). To these solids were added dioxane (640 mL), then water (2.6 mL, 144 mmol), then 1 H-1,2,3-triazole (55.6 mL, 959 mmol), and finally *trans*-1,2-dimethylcyclohexane-1,2-diamine (15.1 mL, 96 mmol). The mixture was then warmed to 60 °C for 30 min, then to 83 °C for 30 min, and then to 100 °C for 3 h. After the 3 h at 100 °C, the mixture was cooled and then 1 L of MTBE and 1 L of water were added. After vigorous mixing, the layers were separated and the bottom aqueous layer was acidified to pH 1.72 with ~148 mL of concentrated hydrochloric acid. The aqueous was then extracted twice with EtOAc. The combined organic layers were dried over Na_2SO_4, filtered, and concentrated to provide a dark oil. The oil was stirred overnight in EtOAc (450 mL) and the resulting precipitate was removed by filtration. The mother-liquors were concentrated to a brown solid (106.21 g, 75 wt% by quantitative HPLC, 79.7 g, 80%). ^{1}H NMR (400 MHz, DMSO-d_6): 8.22 - 8.13 (bs, 2H), 7.84-7.80 (m, 1 H), 7.74 - 7.65 (m, 1 H), 7.50 - 7.41 (m, 1 H).

Intermediate 13: 5-Fluoro-2-pyrimidin-2-yl-benzoic acid.

[0158]



[0159] Step A: 5-Fluoro-2-iodo-benzoic acid methyl ester. To a 500 mL round-bottomed flask was added 5-fluoro-2-iodo-benzoic acid (23 g, 86.5 mmol) in methanol (230 mL). To the resulting solution was added conc. sulfuric acid (2.3 mL, 43.2 mmol). The reaction mixture was warmed to 65 °C and stirred for 15 h. The resulting mixture was concentrated under reduced pressure to give crude product which was then was partitioned between EtOAc (250 mL) and a half sat. $Na_2CO_{3(aq)}$ solution (250 mL). The layers were thoroughly mixed and then separated. The organic layer was dried over magnesium sulfate, filtered, and concentrated under reduced pressure to give a yellow oil (23 g, 95% yield). ^{1}H NMR

(400 MHz, $CDCl_3$): 7.94 (dd, *J* = 8.7, 5.4 Hz, 1 H), 7.54 (dd, *J* = 9.0, 3.1 Hz, 1 H), 6.93 (m, 1 H), 3.94 (s, 3H).

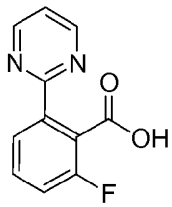
[0160] Step B: 5-Fluoro-2-(4,4,5,5-tetramethyl-[1,3,2]dioxaborolan-2-yl)-benzoic acid methyl ester. To a 1 L round-bottomed flask equipped with a reflux condenser, temperature probe, and nitrogen line, was added 5-fluoro-2-iodo-benzoic acid methyl ester (23 g, 82 mmol) in anhydrous THF (250 mL). Anhydrous triethylamine (34 mL, 246.4 mmol) was added and the resulting mixture was degassed with a nitrogen sparge for 5 minutes. Pinacol borane (17.9 mL, 123.2 mmol) was added and the reaction mixture was degassed once more for 5 minutes. Lastly, tri(o-tolyl)phosphine (1.25 g, 4.1 mmol) and palladium acetate (461 mg, 2.053 mmol) were added. Again, the reaction mixture was degassed with a nitrogen sparge. The mixture was heated to 65 °C and stirred for 1 h. After cooling to room temperature, the reaction mixture was quenched with half sat. ammonium chloride solution (250 mL), and the resulting layers were separated. The aqueous layer was extracted with additional ethyl acetate (250 mL) and the combined organics were dried over magnesium sulfate. After filtration and concentration, the crude product was obtained as a yellow oil (23 g). The crude product was then slurried in 25% EtOAc /hexanes (250 mL). The resulting solids were not desired product and were removed by filtration. The resulting solution was then concentrated to a yellow oil (21 g, 75 wt% desired, 16.1 g actual product, 70% yield), which was used directly in the next step. By ^{1}H-NMR, the crude product was also found to contain 14 wt% pinacol, 6.5 wt% ligand, and 4 wt% des-iodo starting material. ^{1}H NMR (400 MHz, $CDCl_3$): 7.61 (dd, *J* = 9.5, 2.5 Hz, 1 H), 7.52 - 7.45 (m, 1 H), 7.21 (td, *J* = 8.3, 2.5 Hz, 1 H), 3.91 (s, 3H), 1.41 (s, 12H).

[0161] Step C: 5-Fluoro-2-pyrimidin-2-yl-benzoic acid methyl ester. To a 250 mL round-bottomed flask, was added 5-fluoro-2-(4,4,5,5-tetramethyl-[1,3,2]dioxaborolan-2-yl)-benzoic acid methyl ester (5.9 g, 21.06 mmol) in 2-methyl-THF (50 mL). To the resulting solution was added 2-chloropyrimidine (2.9 g, 25.28 mmol), sodium carbonate (6.7 g, 63.19 mmol), and water (17 mL). The mixture was degassed for 30 minutes. $PdCl_2$(dppf)-dcm adduct (CAS#72287-26-4) (0.688 g, 0.843 mmol) was added and the reaction mixture was degassed once more for 30 minutes. The reaction mixture was warmed to 74 °C and stirred overnight. To the resulting solution was added diethyl ether (100 mL) and water (100 mL). The layers were thoroughly mixed then separated. The aqueous layer was extracted with additional diethyl ether (100 mL). The combined organics were dried over magnesium sulfate, filtered, and concentrated under reduced pressure to a brown crude material (5.85 g, 49% desired, 2.87 actual product). The crude product was further purified through recrystallization in 10% EtOAc /hexanes. The mixture was warmed to 70 °C and cooled slowly to room temperature. After filtration, the desired product was obtained as a brown solid (1.72 g actual product, 35% yield overall after recrystallization.) ^{1}H NMR (400 MHz, $CDCl_3$): 8.78 (d, *J* = 4.9 Hz, 2H), 8.09 (dd, *J* = 8.7, 5.5 Hz, 1 H), 7.39 (dd, *J* = 8.6, 2.7 Hz, 1 H), 7.30 - 7.20 (m, 2H), 3.77 (s, 3H).

[0162] Step D: 5-Fluoro-2-pyrimidin-2-yl-benzoic acid. To a solution of 5-fluoro-2-pyrimidin-2-ylbenzoic acid methyl ester (1.72 g, 7.407 mmol) in 2-methyl-THF (20 mL) was added sodium hydroxide (0.74 g, 18.517 mmol) and water (20 mL). The mixture was heated to 72 °C and stirred for 2 h. The layers were separated and the aqueous layer was extracted with additional MTBE. A 50% $HCl_{(aq)}$ solution was then dripped into the aqueous layer until a pH of 1 was reached. The resulting solids were filtered to provide the desired product as an off-white solid (1.34 g, 83% yield). ^{1}H NMR (400 MHz, CD_3OD): 8.82 (d, *J* = 5.0 Hz, 2H), 7.89 (dd, *J* = 8.6, 5.4 Hz, 1 H), 7.53 (dd, *J* = 9.0, 2.7 Hz, 1 H), 7.39 (m, 2H).

Intermediate 14: 2-Fluoro-6-pyrimidin-2-yl-benzoic acid.

[0163]



[0164] Step A: 2-Fluoro-6-iodo-benzoic acid methyl ester. To a 200 mL round-bottomed flask were added 2-fluoro-6-iodo-benzoic acid (7.5 g, 28.2 mmol), $LiOH{\bullet}H_2O$ (1.42 g, 33.8 mmol), and THF (100 mL). The resulting mixture was warmed to 50 °C and stirred for 2 h. Dimethyl sulfate (4.03 mL, 42.3 mmol) was then added and the mixture was warmed to 65 °C. After 2 h, the mixture was cooled to room temperature and $NH_4Cl_{(aq)}$ (50 mL, 13 wt% solution) was added. The two resulting layers were thoroughly mixed and then separated. The organic layer was dried over $MgSO_4$, filtered, and concentrated under reduced pressure to a light brown oil (7.79 g, 99% yield). ^{1}H NMR (400 MHz, $CDCl_3$): 7.68 - 7.60 (m, 1 H), 7.15 - 7.06 (m, 2H), 3.98 (s, 3H).

[0165] Step B: 2-Fluoro-6-(4,4,5,5-tetramethyl-[1,3,2]dioxaborolan-2-yl)-benzoic acid methyl ester. To a 500 mL round-bottomed flask were added 2-fluoro-6-iodo-benzoic acid methyl ester (7.29, 26.0 mmol) and anhydrous THF (150 mL). This mixture was cooled to 0 °C and *i*-PrMgCl (13.7 mL, 2 M in THF, 27.3 mmol) was added dropwise. After 10 min, 2-

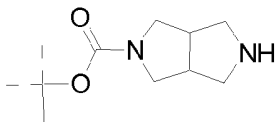
isopropoxy-4,4,5,5-tetramethyl-1,3,2-dioxaborolane (5.58 mL, 27.3 mmol) was added. The mixture was allowed to warm to room temperature, and after 30 min $NH_4Cl_{(aq)}$ (150 mL, 13 wt% solution) was added. The layers were mixed and then separated, and the aqueous layer was extracted with 100 mL of MTBE. The combined organic layers were dried over Na_2SO_4, filtered, and concentrated to a final mass of 6.07 g (90% wt%, 75% yield). ^{1}H NMR (400 MHz, $CDCl_3$): 7.47 - 7.38 (m, 2H), 7.17 - 7.11 (m, 1 H), 3.92 (s, 3H), 1.36 (s, 12H).

[0166] Step C: 2-Fluoro-6-pyrimidin-2-yl-benzoic acid methyl ester. To a 250 mL round-bottomed flask under nitrogen were added 2-fluoro-6-(4,4,5,5-tetramethyl-[1,3,2]dioxaborolan-2-yl)-benzoic acid methyl ester (5.46 g, 19.5 mmol) in 2-methyl-THF (50 mL), 2-chloropyrimidine (2.68 g, 23.4 mmol), and sodium carbonate (6.2 g, 58.5 mmol) in water (17 mL). $PdCl_2$(dppf)-dcm adduct (CAS#72287-26-4) (1.27 g, 1.56 mmol) was then added and the reaction mixture was warmed to 74 °C and stirred for 2.5 h. After cooling, the mixture was diluted with MTBE (50 mL) and water (80 mL). The layers were thoroughly mixed then separated. The aqueous layer was extracted with additional MTBE (100 mL). The combined organics were dried over magnesium sulfate, filtered, concentrated and then purified by flash chromatography (0-25% EA/hexanes) to provide the title compound (1.72 g, 72 wt%, 30% yield). ^{1}H NMR (400 MHz, $CDCl_3$): 8.79 (d, *J* = 4.9 *Hz*, 2H), 8.15 (d, *J* = 7.9 *Hz,* 1 H), 7.51 (td, *J* = 8.1, 5.6 *Hz,* 1 H), 7.28-7.20 (m, 2H), 3.92 (s, 3H).

[0167] Step D: 2-Fluoro-6-pyrimidin-2-yl-benzoic acid. To a solution of 2-fluoro-6-pyrimidin-2-yl-benzoic acid methyl ester (1.36 g, 5.85 mmol) in 2-methyl-THF (20 mL) was added sodium hydroxide (2 M in water, 9.3 mL, 18.6 mmol). The mixture was heated to 72 °C and stirred for 9 h. The layers were separated and the aqueous layer acidified to pH 2 by dropwise addition of 50% $HCl_{(aq)}$ (3.1 mL). The resulting solids were stirred for 1 h, filtered, washed with water, MTBE, and heptanes, and then dried to provide the desired product as a white solid (1.12 g, 88% yield). ^{1}H NMR (400 MHz, CD_3OD): 8.83 (d, *J* = 4.9 *Hz*, 2H), 8.03 (dd, *J* = 7.9, 0.8 *Hz,* 1 H), 7.59 (td, *J* = 8.1, 5.6 *Hz,* 1H), 7.40 (t, *J* = 4.9 *Hz,* 1 H), 7.34 (ddd, *J* = 9.4, 8.4, 1.0 *Hz,* 1 H).

Intermediate 15: Hexahydro-pyrrolo[3,4-c]pyrrole-2-carboxylic acid tert-butyl ester.

[0168]

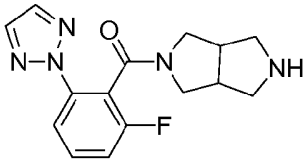


[0169] Step A. 5-Benzyl-hexahydro-pyrrolo[3,4-c]pyrrole-2-carboxylic acid tert-butyl ester. To a solution of 2-benzyl-octahydro-pyrrolo[3,4-c]pyrrole (5.62 g, 27.8 mmol) in DCM (100 mL) was added $(Boc)_2O$ (6.16 g, 28.2 mmol). The reaction mixture was stirred for 24 hours at 23 °C. The solvent was removed in vacuo and the resulting product was used in the next step without further purification. MS (ESI) mass calcd. for $C_{18}H_{26}N_2O_2$, 302.41; m/z found, 303.2 $[M+H]^+$. ^{1}H NMR (400 MHz, $CDCl_3$): 7.36 - 7.20 (m, 5H), 3.61 - 3.46 (m, 4H), 3.24 (br s, 2H), 2.85 - 2.72 (m, 2H), 2.70-2.63 (m, 2H), 2.43 - 2.30 (m, 2H), 1.50 - 1.42 (s, 9H).

[0170] Step B: Hexahydro-pyrrolo[3,4-c]pyrrole-2-carboxylic acid tert-butyl ester. 5-Benzyl-hexahydro-pyrrolo[3,4-c]pyrrole-2-carboxylic acid tert-butyl ester (19.85 g, 65.6 mmol), MeOH (200 mL), HOAc (3 mL) and 10% Pd/C Degussa type (400 mg) were charged to a Parr shaker vial and shaken for 3 days at 70 psi hydrogen gas. The resulting material was filtered through Celite® and concentrated. The crude mixture was purified by flash column chromatography (FCC), DCM to 10% MeOH/DCM containing 1% NH_4OH, to afford the product. MS (ESI) mass calcd. for $C_{11}H_{20}N_2O_2$, 212.29; m/z found, 213.2 $[M+H]^+$. ^{1}H NMR (400 MHz, $CDCl_3$): 3.60-3.55 (m, 2H), 3.38-3.25 (m, 4H), 2.95-2.86 (m, 4H), 1.47 (s, 9H).

Intermediate 16: (2-Fluoro-6-[1,2,3]triazol-2-yl-phenyl)-(hexahydro-pyrrolo[3,4-c]pyrrol-2-yl)-methanone.

[0171]



Method A:

[0172] Step A: 5-(2-Fluoro-6-[1,2,3]triazol-2-yl-benzoyl)-hexahydro-pyrrolo[3,4-c]pyrrole-2-carboxylic acid tert-butyl ester. In a 3-neck round bottom 100 mL flask was added toluene (8.5 mL), aqueous sodium carbonate (1.42 g in 10.7 mL water), and Intermediate 15 (0.905 mg, 4.26 mmol). The biphasic mixture was cooled to 0 °C. After cooling to 0 °C, 2-fluoro-6-[1,2,3]triazol-2-yl-benzoyl chloride was poured over the stirring biphasic mixture of amine and aqueous sodium carbonate. An exotherm was observed. The mixture was allowed to warm to room temperature. After 1 h, a sample of the organic layer was quenched into methanol and a small amount of acid chloride was determined to remain (observed as its methyl ester). Additional amine (~50 mg) was added and the mixture was stirred overnight at room temperature. At the end of this period, the layers were separated and 100 mL of methanol were added to the organic layer. The organic was concentrated and purified using flash column chromatography (FCC), gradient of 5-50% of a solution of 10% MeOH, 0.1 % NH_4OH in DCM/DCM. The desired fractions were combined and concentrated to provide a white foamy solid (1.327 g, 76.8%). MS (ESI): mass calculated for $C_{20}H_{24}FN_5O_3$, 401.44, m/z found 346.2 $[M+H-56]^+$. ^1H NMR (400 MHz, $CDCl_3$): 7.91 - 7.73 (m, 3H), 7.53 - 7.39 (m, 1H), 7.18 - 7.06 (m, 1H), 4.00 - 2.76 (m, 10H), 1.52 - 1.33 (m, 9H).

[0173] Step B: (2-Fluoro-6-[1,2,3]triazol-2-yl-phenyl)-(hexahydro-pyrrolo[3,4-c]pyrrol-2-yl)-methanone. 5-(2-Fluoro-6-[1,2,3]triazol-2-yl-benzoyl)-hexahydro-pyrrolo[3,4-c]pyrrole-2-carboxylic acid tert-butyl ester (1.3 g, 3.21 mmol) was taken up in DCM (6.0 mL) and TFA (3.0 mL) was added. The mixture was allowed to stir at rt for 1 hr. Solvent was removed and then taken back up in DCM and basified with 1 N aq. NaOH. The layers were separated. The aqueous was extracted 2 more time with DCM (and a small amount of MeOH). The organics were combined, dried (Na_2SO_4), filtered, and concentrated to provide the desired free base product, (2-fluoro-6-[1,2,3]triazol-2-yl-phenyl)-(hexahydro-pyrrolo[3,4-c]pyrrol-2-yl)-methanone, as a viscous/foamy residue that was found to be very hydroscopic (950.6 mg, 93.3%). MS (ESI): mass calculated for $C_{15}H_{16}FN_5O$, 301.32, m/z found 302.2 $[M+H]^+$. ^1H NMR (400 MHz, $CDCl_3$): 7.90 - 7.73 (m, 3H), 7.54 - 7.42 (m, 1 H), 7.19 - 7.10 (m, 1 H), 3.85 - 2.65 (m, 10H).

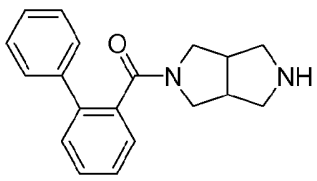
Method B:

[0174] Step A: 2-Fluoro-6-[1,2,3]triazol-2-yl-benzoic acid (0.97 g, 4.71 mmol), hexahydro-pyrrolo[3,4-c]pyrrole-2-carboxylic acid tert-butyl ester (Intermediate 15, 1.0 g, 4.71 mmol), HATU (2.68 g, 7.06 mmol), in DMF (18.8 mL) was added DIEA (2.43 mL, 14.13 mmol). The mixture was stirred at rt for 1 hr. The mixture was diluted with EtOAc and washed with water. The aqueous layer was extracted with EtOAc, the organic layers were combined, dried (Na_2SO_4), filtered and concentrated to provide the crude product. Purification (FCC) (5-50% of a solution 10% MeOH, 0.1% NH_4OH in DCM/EtOAc over 25 minutes, and 50-100% from 25-35 minutes) provided 5-(2-fluoro-6-[1,2,3]triazol-2-yl-benzoyl)-hexahydro-pyrrolo[3,4-c]pyrrole-2-carboxylic acid tert-butyl ester (0.376 g, 19.5%).

[0175] Step B: (2-Fluoro-6-[1,2,3]triazol-2-yl-phenyl)-(hexahydro-pyrrolo[3,4-c]pyrrol-2-yl)-methanone. The title compound was prepared in a manner analogous to Intermediate 16, Method A, Step B.

Intermediate 17: Biphenyl-2-yl-(hexahydro-pyrrolo[3,4-c]pyrrol-2-yl)-methanone.

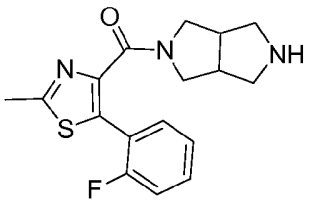
[0176]



[0177] The title compound was prepared in a manner analogous to Intermediate 16, Method B, substituting biphenyl-2-carboxylic acid for 2-fluoro-6-[1,2,3]triazol-2-yl-benzoic acid in Step A.

Intermediate 18: [5-(2-Fluoro-phenyl)-2-methyl-thiazol-4-yl]-(hexahydro-pyrrolo[3,4-c]pyrrol-2-yl)-methanone.

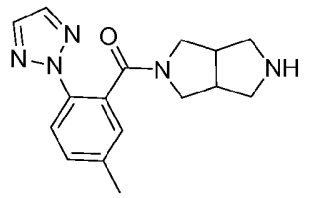
[0178]



[0179] The title compound was prepared in a manner analogous to Intermediate 16, Method B, substituting 5-(2-fluoro-phenyl)-2-methyl-thiazole-4-carboxylic acid for 2-fluoro-6-[1,2,3]triazol-2-yl-benzoic acid in Step A. MS (ESI): mass calculated for $C_{17}H_{18}FN_3OS$, 331.41, m/z found 332.1 $[M+1]^+$. ^1H NMR (400 MHz, $CDCl_3$): 7.54 - 7.45 (m, 1H), 7.40 - 7.32 (m, 1H), 7.21 - 7.10 (m, 2H), 3.79 - 3.70 (m, 1 H), 3.61 - 3.50 (m, 2H), 3.22 - 3.13 (m, 1 H), 3.12 - 3.05 (m, 1 H), 3.03 - 2.94 (m, 1 H), 2.85 - 2.45 (m, 8H).

Intermediate 19: (Hexahydro-pyrrolo[3,4-c]pyrrol-2-yl)-(5-methyl-2-[1,2,3]triazol-2-yl-phenyl)-methanone.

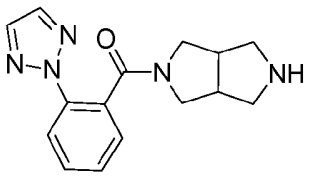
[0180]



[0181] The title compound was prepared in a manner analogous to Intermediate 16, Method B, substituting 5-methyl-2-[1,2,3]triazol-2-yl-benzoic acid for 2-fluoro-6-[1,2,3]triazol-2-yl-benzoic acid in Step A. MS (ESI): mass calculated for $C_{17}H_{19}N_5O$, 297.36, m/z found 298.2 $[M+1]^+$. ^1H NMR (400 MHz, $CDCl_3$): 7.88 - 7.76 (m, 3H), 7.36 - 7.29 (m, 1 H), 7.22 - 7.18 (m, 1H), 3.81 - 2.59 (m, 10H), 2.42 (s, 3H).

Intermediate 20: 2(Hexahydro-pyrrolo[3,4-c]pyrrol-2-yl)-(2-[1,2,3]triazol-2-ylphenyl)-methanone.

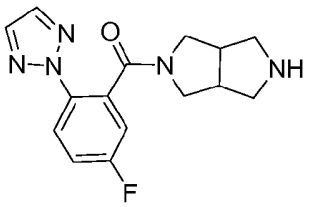
[0182]



[0183] The title compound was prepared in a manner analogous to Intermediate 16, Method B, substituting 2-[1,2,3]triazol-2-yl-benzoic acid for 2-fluoro-6-[1,2,3]triazol-2-yl-benzoic acid in Step A. MS (ESI): mass calculated for $C_{15}H_{17}N_5O$, 283.33, m/z found 284.1 $[M+1]^+$. ^1H NMR (400 MHz, $CDCl_3$): 7.99 (d, J = 8.2, 1 H), 7.55 - 7.51 (m, 1 H), 7.48 - 7.36 (m, 2H), 3.99 - 2.42 (m, 11 H).

Intermediate 21: (5-Fluoro-2-[1,2,3]triazol-2-yl-phenyl)-(hexahydro-pyrrolo[3,4-c]pyrrol-2-yl)-methanone.

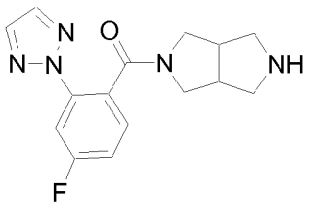
[0184]



[0185] The title compound was prepared in a manner analogous to Intermediate 16, Method B, substituting 5-fluoro-2-[1,2,3]triazol-2-yl-benzoic acid (Intermediate 97) for 2-fluoro-6-[1,2,3]triazol-2-yl-benzoic acid in Step A. MS (ESI): mass calculated for $C_{15}H_{16}FN_5O$, 301.32, m/z found 302.0 $[M+1]^+$. ^1H NMR (400 MHz, $CDCl_3$): 7.96 (dd, *J* = 9.0, 4.8, 1 H), 7.85 - 7.74 (m, 2H), 7.25 - 7.17 (m, 1 H), 7.16 - 7.10 (m, 1 H), 3.78 - 2.48 (m, 10H).

Intermediate 22: (4-Fluoro-2-[1,2,3]triazol-2-yl-phenyl)-(hexahydro-pyrrolo[3,4-c]pyrrol-2-yl)-methanone.

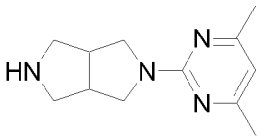
[0186]



The title compound was prepared in a manner analogous to Intermediate 16, Method B, substituting 4-fluoro-2-[1,2,3]triazol-2-yl-benzoic acid for 2-fluoro-6-[1,2,3]triazol-2-yl-benzoic acid in Step A. MS (ESI): mass calculated for $C_{15}H_{16}FN_5O$, 301.32, m/z found 302.0 $[M+1]^+$. ^1H NMR (400 MHz, $CDCl_3$): 7.90 - 7.72 (m, 3H), 7.43 - 7.35 (m, 1 H), 7.17 - 7.08 (m, 1 H), 3.81 - 3.62 (m, 2H), 3.39 - 2.56 (m, 8H).

Intermediate 23: 2-(4,6-Dimethyl-pyrimidin-2-yl)-octahydro-pyrrolo[3,4-c]pyrrole.

[0187]



Method A:

[0188] Step A: 5-(4,6-Dimethyl-pyrimidin-2-yl)-hexahydro-pyrrolo[3,4-c]pyrrole-2-carboxylic acid tert-butyl ester. Hexahydro-pyrrolo[3,4-c]pyrrole-2-carboxylic acid tert-butyl ester (1.20 g, 5.6 mmol), 2-chloro-4,6-dimethyl-pyrimidine (1.03 g, 7.2 mmol), Cs_2CO_3 (2.12 g, 6.5 mmol) and DMF (15 mL) were combined and heated to 100 °C for 24 hours. The reaction was then allowed to cool and water and EtOAc were added. The products were extracted into EtOAc, dried over Na_2SO_4, and concentrated. The resulting crude mixture was purified by flash column chromatography (EA/hex) to give the title compound (1.27 g, 71 %). MS (ESI) mass calcd. for $C_{17}H_{26}N_4O_2$ 318.42; m/z found, 319.2 $[M+H]^+$. ^1H NMR (400 MHz, $CDCl_3$): 6.25 (s, 1 H), 3.85-3.75 (m, 2H), 3.69 - 3.46 (m, 4H), 3.38-3.20 (m, 2H), 2.94 (br s, 2H), 2.29 (s, 6H), 1.44 (s, 9H).

[0189] Step B: 2-(4,6-Dimethyl-pyrimidin-2-yl)-octahydro-pyrrolo[3,4-c]pyrrole. 5-(4,6-Dimethyl-pyrimidin-2-yl)-hexahydro-pyrrolo[3,4-c]pyrrole-2-carboxylic acid tert-butyl ester (0.92 g, 2.9 mmol), DCM (10 mL) and TFA (5 mL) were stirred at 23 °C for 2 h. The mixture was concentrated to remove the volatiles, diluted with EtOAc and 1 N aq. NaOH, and extracted with EtOAc (3X). The organic fractions were dried and concentrated to give the title compound (0.61 g, 96%) that contained a small amount of DCM and was used as is. MS (ESI) mass calcd. for $C_{12}H_{18}N_4$, 218.30; m/z found, 219.2 $[M+H]^+$. ^1H NMR (400 MHz, $CDCl_3$): 6.27 (s, 1 H), 3.81 - 3.70 (m, 2H), 3.55-3.48 (m, 2H), 3.16 - 3.07 (m, 2H), 2.94 - 2.78 (m, 4H), 2.29 (s, 6H).

Method B:

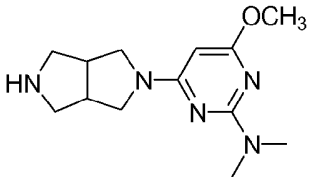
[0190] Step A: 2-Benzyl-5-(4,6-dimethyl-pyrimidin-2-yl)-octahydro-pyrrolo[3,4-c]pyrrole. To a 3 L, 3-necked, round-bottomed flask equipped with mechanical stirrer, reflux condenser, temperature probe, and nitrogen inlet, was added 2-benzyl-octahydro-pyrrolo[3,4-c]pyrrole (109 g, 538.8 mmol) in DMF (1.6 L). To the resulting solution were added 2-chloro-4,6-methylpyrimidine (76.8 g, 538.8 mmol) and Cs_2CO_3 (351.1 g, 1.08 mol). The heterogeneous mixture was heated to 100 °C and stirred for 15 h. After cooling to room temperature, the mixture was diluted with ethyl acetate (1.5 L) and water (1.5 L). The layers were thoroughly mixed and separated. The aqueous layer was extracted with additional

ethyl acetate (1.5 L). The combined organics were dried over sodium sulfate, filtered, and concentrated under reduced pressure to a brown solid (160 g, 96% yield). MS (ESI) mass calcd. for $C_{19}H_{24}N_4$, 308.20; m/z found 309 $[M+H]^+$. ^{1}H-NMR (500 MHz, $CDCl_3$): 7.32 - 7.26 (m, 4H), 7.25 - 7.20 (m, 1 H), 6.27 (s, 1 H), 3.81 - 3.73 (m, 2H), 3.58 (s, 2H), 3.54 (dd, *J* = 11.4, 3.5 Hz, 2H), 2.95 - 2.86 (m, 2H), 2.80 - 2.68 (m, 2H), 2.47 - 2.40 (m, 2H), 2.35 - 2.24 (s, 6H).

[0191] Step B: 2-(4,6-Dimethyl-pyrimidin-2-yl)-octahydro-pyrrolo[3,4-c]pyrrole•HOAc. To a 4 L high pressure autoclave equipped with mechanical stirring, temperature probe, heating jacket, and gas inlet were added 5% Pd/C (66.9 g, Johnson Matthey 5R338, 56.8% H_2O, 3.45 mol%) and a solution of 2-benzyl-5-(4,6-dimethyl-pyrimidin-2-yl)-octahydro-pyrrolo[3,4-c]pyrrole (160 g, 519 mmol) and acetic acid (30 mL, 519 mmol) in ethanol (3.2 L). The mixture was stirred at 50 °C under 50 psi of $H_{2(g)}$ for 4 h. The catalyst was removed and the resulting solution was then concentrated under reduced pressure to provide the desired product as a white solid (144 g, quantitative yield) as the HOAc salt. MS (ESI): mass calcd. for $C_{12}H_{18}N_4$, 218.15; m/z found 219 $[M+H]^+$. ^{1}H-NMR ($CDCl_3$, 400 MHz): 6.30 (s, 1 H), 3.79 - 3.59 (m, 4H), 3.39 (m, 2H), 3.09 - 2.88 (m, 4H), 2.29 (s, 6H), 1.93 (s, 3H).

Intermediate 24: [4-(Hexahydro-pyrrolo[3,4-c]pyrrol-2-yl)-6-methoxy-pyrimidin-2-yl]-dimethyl-amine.

[0192]

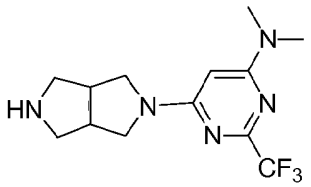


[0193] Step A: Intermediate 24 was prepared in a manner analogous to Intermediate 23, Method A, substituting (4-chloro-6-methoxy-pyrimidin-2-yl)-dimethyl-amine for 2-chloro-4,6-dimethyl-pyrimidine in Step A to afford 5-(2-dimethylamino-6-methoxy-pyrimidin-4-yl)-hexahydro-pyrrolo[3,4-c]pyrrole-2-carboxylic acid tert-butyl ester.

[0194] Step B: [4-(Hexahydro-pyrrolo[3,4-c]pyrrol-2-yl)-6-methoxy-pyrimidin-2-yl]-dimethyl-amine. A mixture of 5-(2-dimethylamino-6-methoxy-pyrimidin-4-yl)-hexahydro-pyrrolo[3,4-c]pyrrole-2-carboxylic acid tert-butyl ester (700 mg) and TFA (10 mL) was stirred in dioxane (30 mL) at room temperature for 18h. Then the acid and solvents were removed to yield the crude trifluoro acetic acid salt of the title compound (1.3 g). The crude was purified by flash column chromatography (FCC) using 0-10 % MeOH (2 M NH_3) and DCM (gradient) to yield pure title compound (155 mg, 30.4 %). MS (ESI) mass calcd. for $C_{13}H_{21}N_5O$, 263.34; m/z found 264.1 $[M+H]^+$. The intermediate was used without further purification.

Intermediate 25: [6-(Hexahydro-pyrrolo[3,4-c]pyrrol-2-yl)-2-trifluoromethyl-pyrimidin-4-yl]-dimethyl-amine.

[0195]

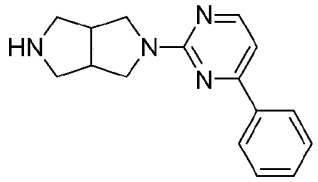


[0196] Step A: The title compound was prepared in a manner analogous to Intermediate 23, Method A, substituting (6-chloro-2-trifluoromethyl-pyrimidin-4-yl)-dimethyl-amine for 2-chloro-4,6-dimethyl-pyrimidine in Step A to afford 5-(6-dimethylamino-2-trifluoromethyl-pyrimidin-4-yl)-hexahydro-pyrrolo[3,4-c]pyrrole-2-carboxylic acid tert-butyl ester.

[0197] Step B: [6-(Hexahydro-pyrrolo[3,4-c]pyrrol-2-yl)-2-trifluoromethyl-pyrimidin-4-yl]-dimethyl-amine. A mixture of 5-(6-dimethylamino-2-trifluoromethyl-pyrimidin-4-yl)-hexahydro-pyrrolo[3,4-c]pyrrole-2-carboxylic acid tert-butyl ester (600 mg) and TFA (10.0 mL) was stirred in dioxane (30.0 mL) at room temperature for 18h. Then the acid and solvents were removed to yield the crude trifluoro acetic acid salt of the title compound (800 mg, 165 %). The crude was purified by flash column chromatography (FCC) using 0-10 % MeOH (2M NH_3) and DCM (gradient) to yield pure title compound (260 mg, 53.5 %). MS (ESI) mass calcd. for $C_{13}H_{18}F_3N_5$, 301.32; m/z found 302.2 $[M+H]^+$. The intermediate was used as such in the subsequent reactions.

Intermediate 26: 2-(4-Phenyl-pyrimidin-2-yl)-octahydro-pyrrolo[3,4-c]pyrrole

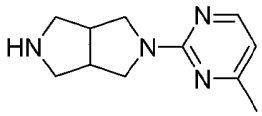
[0198]



[0199] The title compound was prepared in a manner analogous to Intermediate 23, Method A, substituting 2-chloro-4-phenyl-pyrimidine for 2-chloro-4,6-dimethyl-pyrimidine in Step A. MS (ESI) mass calcd. for $C_{29}H_{26}N_4O$, 266.35; m/z found, 267.2 $[M+H]^+$ ^1H NMR (400 MHz, CD_3OD): 6.78 - 6.70 (m, 1H), 6.55-6.49 (m, 2H), 5.97 - 5.82 (m, 3H), 5.60 - 5.47 (m, 1 H), 2.30-2.20 (m, 2H), 2.02 (dd, *J* = 11.6, 2.6 Hz, 2H), 1.58 (br s, 2H), 1.42 (br s, 2H), 1.23 (br s, 2H).

Intermediate 27: 2-(4-Methyl-pyrimidin-2-yl)-octahydro-pyrrolo[3,4-c]pyrrole

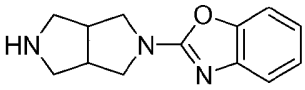
[0200]



[0201] The title compound was prepared in a manner analogous to Intermediate 23, Method A, substituting 2-chloro-4-methyl-pyrimidine for 2-chloro-4,6-dimethyl-pyrimidine in Step A. MS (ESI) mass calcd. for $C_{11}H_{16}N_4$, 204.28; m/z found, 205.2 $[M+H]^+$ ^1H NMR (400 MHz, $CDCl_3$): 8.20 - 8.12 (m, 1H), 8.16 (d, *J* = 5.0 Hz, 1 H), 6.43 - 6.33 (m, 1 H), 6.38 (d, *J* = 5.0 Hz, 1 H), 3.81 - 3.69 (m, 2H), 3.52 (dd, *J* = 11.6, 3.2 Hz, 2H), 3.16 (dd, *J* = 11.1, 6.5 Hz, 2H), 2.97 - 2.77 (m, 5H), 2.33 (s, 3H).

Intermediate 28: 2-(Hexahydro-pyrrolo[3,4-c]pyrrol-2-yl)-benzooxazole.

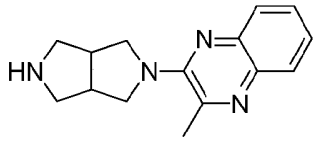
[0202]



[0203] The title compound was prepared in a manner analogous to Intermediate 23, Method A, substituting 2-chloro-benzooxazole for 2-chloro-4,6-dimethyl-pyrimidine in Step A. MS (ESI) mass calcd. for $C_{11}H_{16}N_4$, 229.28; m/z found, 230.15 $[M+H]^+$ ^1H NMR (400 MHz, $CDCl_3$): 7.43 - 7.33 (m, 1 H), 7.29 - 7.22 (m, 1 H), 7.120-7.13(m, 1 H), 7.05-6.98 (m, 1 H), 3.89 - 3.77 (m, 2H), 3.55 (dd, *J* = 10.9, 3.2 Hz, 2H), 3.25-3.15(m, 2H), 3.02 - 2.90 (m, 2H), 2.88 - 2.79 (m, 2H).

Intermediate 29: 2-(Hexahydro-pyrrolo[3,4-c]pyrrol-2-yl)-3-methyl-quinoxaline.

[0204]

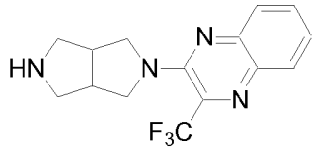


[0205] The title compound was prepared in a manner analogous to Intermediate 23 substituting 2-chloro-3-methyl-quinoxaline for 2-chloro-4,6-dimethyl-pyrimidine in Step A. MS (ESI) mass calcd. for $C_{15}H_{18}N_4$, 254.34; m/z found, 255.2 $[M+H]^+$. ^1H NMR (400 MHz, CD_3OD): 7.78 (dd, *J* = 8.2, 1.1 Hz, 1 H), 7.73 (dd, *J* = 8.3, 0.9 Hz, 1 H), 7.59-7.54 (m, 1 H), 7.48-7.43 (m, 1 H), 3.78-3.69 (m, 2H), 3.58 (dd, *J* = 11.0, 3.1 Hz, 2H), 3.18-3.12 (m, 2H), 2.99-2.90 (m, 2H), 2.81 (dd,

J = 11.6, 4.0 Hz, 2H), 2.75 (s, 3H).

Intermediate 30: 2-(Hexahydro-pyrrolo[3,4-c]pyrrol-2-yl)-3-trifluoromethyl-quinoxaline.

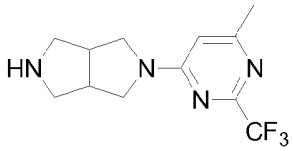
[0206]



[0207] The title compound was prepared in a manner analogous to Intermediate 23 substituting 2-chloro-3-trifluoromethyl-quinoxaline for 2-chloro-4,6-dimethyl-pyrimidine in Step A. MS (ESI) mass calcd. for $C_{15}H_{15}F_3N_4$, 308.31; m/z found, 309.2 $[M+H]^+$. ^1H NMR (400 MHz, CD_3OD): 8.00 - 7.89 (m, 1 H), 7.83 - 7.70 (m, 2H), 7.60-7.52(m, 1 H), 3.81-3.73(m, 2H), 3.61 (dd, *J* = 11.3, 3.0 Hz, 2H), 3.18-3.13 (m, 2H), 2.99 - 2.92 (m, 2H), 2.78 (dd, *J* = 11.6, 4.1 Hz, 2H).

Intermediate 31: 2-(6-Methyl-2-trifluoromethyl-pyrimidin-4-yl)-octahydro-pyrrolo[3,4-c]pyrrole

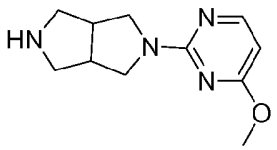
[0208]



[0209] The title compound was prepared in a manner analogous to Intermediate 23 substituting 4-chloro-6-methyl-2-trifluoromethyl-pyrimidine for 2-chloro-4,6-dimethyl-pyrimidine in Step A. MS (ESI) mass calcd. for $C_{12}H_{15}F_3N_4$, 272.27; m/z found, 273.2 $[M+H]^+$. ^1H NMR (400 MHz, CD_3OD): 6.48 (s, 1 H), 3.90-3.24 (m, 4H), 3.20-3.10 (m, 2H), 3.00 (br s, 2H), 2.82-2.75 (m, 2H), 2.39 (s, 3 H).

Intermediate 32: 2-(4-Methoxy-pyrimidin-2-yl)-octahydro-pyrrolo[3,4-c]pyrrole.

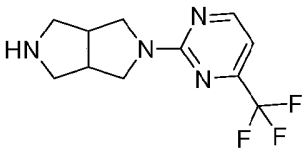
[0210]



[0211] The title compound was prepared in a manner analogous to Intermediate 23 substituting 2-chloro-4-methoxy-pyrimidine for 2-chloro-4,6-dimethyl-pyrimidine in Step A. MS (ESI): mass calculated for $C_{11}H_{16}N_4O$, 220.27, m/z found 221.2 $[M+1]^+$. ^1H NMR (400 MHz, CD_3OD): 8.00 (d, *J* = 6.0, 1 H), 6.12 (d, *J* = 6.0, 1 H), 4.23 (s, 1 H), 3.94 (s, 3H), 3.84 - 3.75 (m, 2H), 3.70 - 3.59 (m, 4H), 3.28 - 3.15 (m,4H).

Intermediate 33: 2-(4-Trifluoromethyl-pyrimidin-2-yl)-octahydro-pyrrolo[3,4-c]pyrrole

[0212]

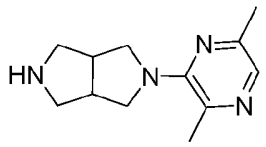


[0213] The title compound was prepared in a manner analogous to Intermediate 24, substituting 2-chloro-4-trifluor-

omethyl-pyrimidine for 2-chloro-4,6-dimethyl-pyrimidine in Step A. MS (ESI): mass calculated for $C_{11}H_{13}F_3N_4$, 258.25, m/z found 259.1 $[M+1]^+$. ^1H NMR (400 MHz, CDCl3): 8.52 (d, *J* = 4.9, 1H), 6.88-6.83 (m, 1 H), 3.94 - 3.54 (m, 6H), 3.29 - 3.11 (m, 4H).

Intermediate 34: 2-(3,6-Dimethyl-pyrazin-2-yl)-octahydro-pyrrolo[3,4-c]pyrrole

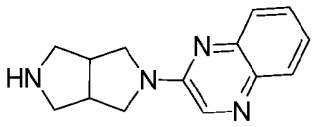
[0214]



[0215] The title compound was prepared in a manner analogous to Intermediate 23 substituting 3-chloro-2,5-dimethyl-pyrazine for 2-chloro-4,6-dimethyl-pyrimidine in Step A. MS (ESI): mass calculated for $C_{12}H_{18}N_4$, 218.30, m/z found 219.2 $[M+1]^+$. ^1H NMR (400 MHz, $CDCl_3$): 10.13 - 9.85 (m, 1 H), 7.89 (s, 1 H), 3.71-3.40 (m, 6H), 3.17 (s, 4H), 2.54 (s, 3H), 2.39 (s, 3H).

Intermediate 35: 2-(Hexahydro-pyrrolo[3,4-c]pyrrol-2-yl)-quinoxaline

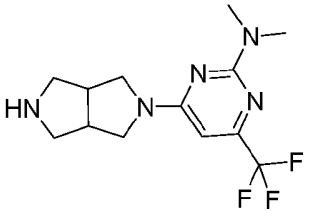
[0216]



[0217] The title compound was prepared in a manner analogous to Intermediate 23 substituting 2-chloro-quinoxaline for 2-chloro-4,6-dimethyl-pyrimidine in Step A. MS (ESI): mass calculated for $C_{14}H_{16}N_4$, 240.31, m/z found 241.2 $[M+1]^+$. ^1H NMR (400 MHz, $CDCl_3$): 8.39 - 8.34 (m, 1 H), 7.91 - 7.84 (m, 1 H), 7.72 - 7.66 (m, 1 H), 7.60 - 7.53 (m, 1 H), 7.40 - 7.32 (m, 1 H), 3.95 - 3.80 (m, 2H), 3.65-3.52 (m, 2H), 3.27 - 3.11 (m, 2H), 3.08 - 2.94 (m, 2H), 2.92 - 2.82 (m, 2H).

Intermediate 36: [4-(Hexahydro-pyrrolo[3,4-c]pyrrol-2-yl)-6-trifluoromethyl-pyrimidin-2-yl]-dimethyl-amine

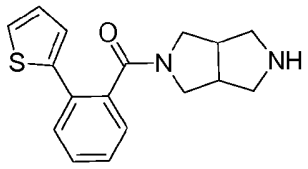
[0218]



[0219] The title compound was prepared in a manner analogous to Intermediate 23 substituting (4-chloro-6-trifluor-omethyl-pyrimidin-2-yl)-dimethyl-amine for 2-chloro-4,6-dimethyl-pyrimidine in Step A. MS (ESI): mass calculated for $C_{34}H_{18}F_3N_5$, 301.32, m/z found 302.1 $[M+1]^+$. ^1H NMR (400 MHz, $CDCl_3$): 5.92 (s, 1 H), 3.91 - 3.54 (m, 2H), 3.50 - 3.24 (m, 2H), 3.21 - 3.05 (m, 9H), 2.99-2.75 (m, 4H).

Intermediate 37: (Hexahydro-pyrrolo[3,4-c]pyrrol-2-yl)-(2-thiophen-2-yl-phenyl)-methanone.

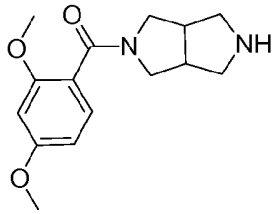
[0220]



[0221] The title compound was prepared in a manner analogous to Intermediate 16, Method B, substituting 2-thiophen-2-yl-benzoic acid for 2-fluoro-6-[1,2,3]triazol-2-yl-benzoic acid in Step A. MS (ESI): mass calculated for $C_{17}H_{18}N_2OS$, 298.41, m/z found 299.1 $[M+1]^+$. ^1H NMR (400 MHz, $CDCl_3$): 7.55 - 7.50 (m, 1H), 7.48 - 7.31 (m, 4H), 7.22 - 7.11 (m, 1 H), 7.08 - 7.03 (m, 1 H), 4.06 - 1.63 (m, 10H).

Intermediate 38: (2,4-Dimethoxy-phenyl)-(hexahydro-pyrrolo[3,4-c]pyrrol-2-yl)-methanone.

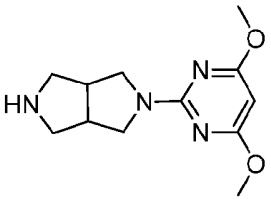
[0222]



[0223] The title compound was prepared in a manner analogous to Intermediate 16, Method B, substituting 2,4-dimethoxybenzoic acid for 2-fluoro-6-[1,2,3]triazol-2-yl-benzoic acid and substituting EDCI for HATU in Step A.

Intermediate 39: 2-(4,6-Dimethoxy-pyrimidin-2-yl)-octahydro-pyrrolo[3,4-c]pyrrole.

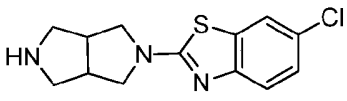
[0224]



[0225] The title compound was prepared in a manner analogous to Intermediate 23 utilizing 2-chloro-4,6-dimethoxypyrimidine and hexahydro-pyrrolo[3,4-c]pyrrole-2-carboxylic acid tert-butyl ester as starting materials.

Intermediate 40: 6-Chloro-2-(hexahydro-pyrrolo[3,4-c]pyrrol-2-yl)-benzothiazole.

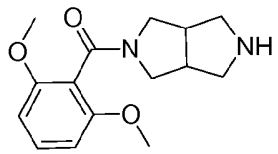
[0226]



[0227] The title compound was prepared in a manner analogous to Intermediate 23 utilizing 2,6-dichloro-benzothiazole and hexahydro-pyrrolo[3,4-c]pyrrole-2-carboxylic acid tert-butyl ester as starting materials.

Intermediate 41: (2,6-Dimethoxy-phenyl)-(hexahydro-pyrrolo[3,4-c]pyrrol-2-yl)-methanone.

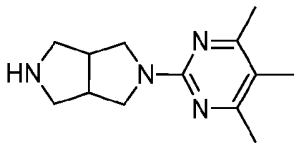
[0228]



[0229] The title compound was prepared in a manner analogous to Intermediate 16, Method B, substituting 2,6-dimethoxybenzoic acid for 2-fluoro-6-[1,2,3]triazol-2-yl-benzoic acid in Step A.

Intermediate 42: 2-(4,5,6-trimethylpyrimidin-2-yl)octahydropyrrolo[3,4-c]pyrrole.

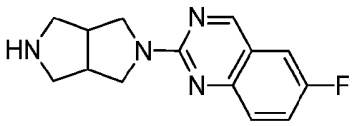
[0230]



[0231] The title compound was prepared in a manner analogous to Intermediate 23 substituting 2-chloro-4,5,6-trimethylpyrimidine (Intermediate 56) for 2-chloro-4,6-dimethylpyrimidine in Step A. MS (ESI): mass calculated for $C_{24}H_{25}FN_6O$, 232.17; m/z found 233.1 $[M+H]^+$.

Intermediate 43: 6-Fluoro-2-(hexahydropyrrolo[3,4-c]pyrrol-2(1 H)-yl)quinazoline.

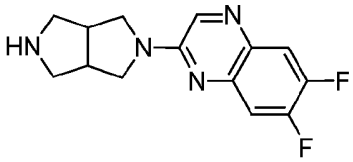
[0232]



[0233] The title compound was prepared in a manner analogous to Intermediate 23 substituting 2-chloro-6-fluoroquinazoline for 2-chloro-4,6-dimethylpyrimidine in Step A. MS (ESI): mass calculated for $C_{24}H_{25}FN_6O$, 258.13; m/z found 259.1 $[M+H]^+$.

Intermediate 44: 6,7-Difluoro-2-(hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl)quinoxaline.

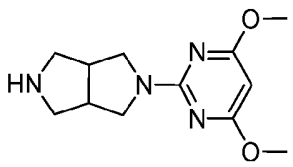
[0234]



[0235] The title compound was prepared in a manner analogous to Intermediate 23 substituting 2-chloro-6,7-difluoroquinoxaline for 2-chloro-4,6-dimethylpyrimidine in Step A. MS (ESI): mass calculated for $C_{24}H_{25}FN_6O$, 276.12; m/z found 277.1 $[M+H]^+$.

Intermediate 45: 2-(4,6-Dimethoxypyrimidin-2-yl)octahydropyrrolo[3,4-c]pyrrole.

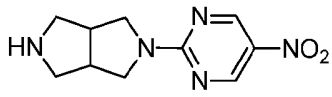
[0236]



[0237] The title compound was prepared in a manner analogous to Intermediate 23 substituting 2-chloro-4,6-dimethoxypyrimidine for 2-chloro-4,6-dimethylpyrimidine in Step A. MS (ESI): mass calculated for $C_{12}H_{18}N_4O_2$, 250.14; m/z found 251.2 $[M+H]^+$.

Intermediate 46: 2-(5-Nitropyrimidin-2-yl)octahydropyrrolo[3,4-c]pyrrole

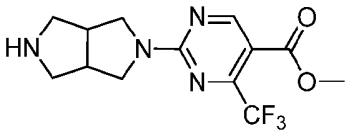
[0238]



[0239] The title compound was prepared in a manner analogous to Intermediate 23 substituting 2-chloro-5-nitropyrimidine for 2-chloro-4,6-dimethylpyrimidine in Step A. MS (ESI): mass calculated for $C_{10}H_{13}N_5O_2$, 235.11; m/z found 236.2 $[M+H]^+$.

Intermediate 47: Methyl 2-(hexahydropyrrolo[3,4-c]pyrrol-2(1 H)-yl)-4-(trifluoromethyl)pyrimidine-5-carboxylate.

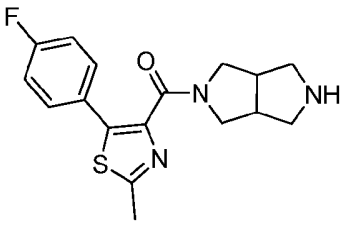
[0240]



[0241] The title compound was prepared in a manner analogous to Intermediate 23 substituting methyl 2-chloro-4-(trifluoromethyl)pyrimidine-5-carboxylate for 2-chloro-4,6-dimethylpyrimidine in Step A. MS (ESI): mass calculated for $C_{13}H_{15}F_3N_4O_2$, 316.11; m/z found 317.2 $[M+H]^+$.

Intermediate 48: (5-(4-Fluorophenyl)-2-methylthiazol-4-yl)(hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl)methanone.

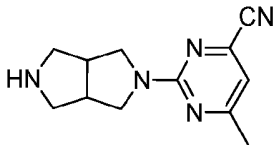
[0242]



[0243] The title compound was prepared in a manner analogous to Intermediate 16, Method B, substituting 5-(4-fluorophenyl)-2-methylthiazole-4-carboxylic acid for 3-fluoro-2-[1,2,3]triazol-2-yl-benzoic acid in the last step. MS (ESI): mass calculated for $C_{12}H_{18}N_4$, 218.30, m/z found 219.2 $[M+1]^+$

Intermediate 49: 2-(Hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl)-6-methylpyrimidine-4-carbonitrile.

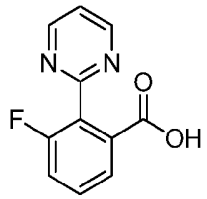
[0244]



[0245] The title compound was prepared in a manner analogous to Intermediate 23 substituting methyl 2-chloro-6-methylpyrimidine-4-carbonitrile for 2-chloro-4,6-dimethylpyrimidine in Step A. MS (ESI): mass calculated for $C_{12}H_{15}N_5$, 229.3; m/z found 230.2 $[M+H]^+$.

Intermediate 50: 3-Fluoro-2-(pyrimidin-2-yl)benzoic acid.

[0246]

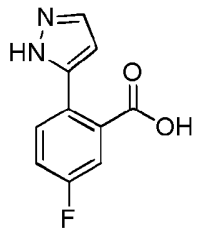


[0247] Step A: 3-Fluoro-2-(pyrimidin-2-yl)benzonitrile. 2-Iodo-3-fluorobenzonitrile (2.5 g, 10.3 mmol) and 2-tributylstannane pyrimidine (3.7g, 10.0 mmol) were combined and dissolved in degassed DME (18 ml) then purged with bubbling N_2 for 5 minutes. The reaction was treated with $Pd(PPh_3)_4$ (577 mg, 0.5 mmol) and then purged with bubbling for 5 minutes in a sealed vessel and then heated in microwave at 160 °C for 90 min. The reaction was cooled and filtered through celite and concentrated to minimum volume and the ppt the formed was diluted with hexanes (40 ml) and cooled to 0 °C then filtered. The solid purified (FCC) (20-100% EA / hex) to give 3-fluoro-2-(pyrimidin-2-yl)benzonitrile. ^{1}H NMR (400 MHz, $CDCl_3$): 8.93 (d, J = 4.9 Hz, 2H), 8.14 (dd, J = 9.6, 2.7 Hz, 1 H), 7.86 (dd, J = 8.6, 5.3 Hz, 1 H), 7.36 (t, J = 4.9 Hz, 1 H), 7.32 - 7.24 (m, 1 H).

[0248] Step B: 3-Fluoro-2-(pyrimidin-2-yl)benzoic acid. 3-Fluoro-2-(pyrimidin-2-yl)benzonitrile (98 mg, 0.5 mmol) was dissolved in MeOH (3 mL) and 2M NaOH (aq, 1 mL). The reaction was heated at reflux for 15 h, then cooled to 23 °C, acidified with 1 N aq. HCl to pH=1 and extracted with EtOAc (2 X). The combined organics were washed with brine and dried over sodium sulfate to give the title compound. ^{1}H NMR (400 MHz, DMSO-d_6): 8.89 (d, J = 4.9 Hz, 1 H), 7.74 (dd, J = 7.6, 1.2 Hz, 1 H), 7.63 (td, J = 8.0, 5.5 Hz, 1 H), 7.60 - 7.53 (m, 1 H), 7.52 (t, J = 4.9 Hz, 1 H).

Intermediate 51: 5-Fluoro-2-(1H-pyrazol-5-yl)benzoic acid.

[0249]



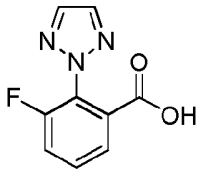
[0250] Step A: Methyl 2-bromo-5-fluorobenzoate (1.0 g, 4.2 mmol) and (1 H-pyrazol-5-yl)boronic acid (485 mg, 4.6 mmol) were combined and dissolved in degassed DME (15 ml) then treated with $NaHCO_3$ (706 mg, 8.4 mmol) in water and the reaction purged with bubbling N_2 for 5 minutes. The reaction was treated with $Pd(PPh_3)_4$ (243 mg (0.2 mmol) and then purged with bubbling for 5 minutes in a sealed vessel and then heated to reflux for 2 h. The reaction mixture was cooled to 23 °C, filtered, and solid rinsed with EtOAc. The organic layers were separated, dried and concentrated. Purification via FCC (ethyl acetate/hexanes, 0-30%) afforded methyl 5-fluoro-2-(1H-pyrazol-5-yl)benzoate (415 mg, 44%).

[0251] Step B: A solution of methyl 5-fluoro-2-(1H-pyrazol-5-yl)benzoate (415 mg, 1.9 mmol) in EtOH (10 ml) was treated with 4.0 eq of LiOH and stirred and monitored for two hours until the reaction was complete. The reaction mixture

was then made to pH = 5, and then the solution concentrated under reduced pressure, during which time a ppt formed. The solution was concentrated to minimum volume and cooled in ice, filtered and washed with ice water to give 5-fluoro-2-(1 H-pyrazol-5-yl)benzoic acid (172 mg, 44%). ^{1}H NMR (400 MHz, DMSO-d_6): 13.03 (s, 1 H), 7.71 (d, *J* = 2.0 Hz, 1 H), 7.67 (dd, *J* = 8.3, 5.6 Hz, 1 H), 7.37 (td, *J* = 8.6, 2.9 Hz, 2H), 6.44 (d, *J* = 2.2 Hz, 1 H).

Intermediate 52: 3-Fluoro-2-(2H-1,2,3-triazol-2-yl)benzoic acid.

[0252]

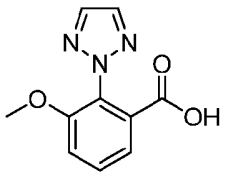


[0253] Step A: 3-Fluoro-2-(2H-1,2,3-triazol-2-yl)benzonitrile and 3-fluoro-2-(1H-1,2,3-triazol-1-yl)benzonitrile. A mixture of 2,3-difluorobenzonitrile (4.0 g, 28.8 mmol), 2H-1,2,3-triazole (1.9 g, 28.8 mmol) in DMF (85.0 mL) and K_2CO_3 (7.9 g, 57.5 mmol) were heated to 125 °C for 1.5 h. After cooling to rt, water was added and the mixture extracted with EtOAc (2 X). The combined organics were washed with brine and dried (Na_2SO_4). Purification via FCC (10-100% EtOAc in hexanes) gave two products. 3-Fluoro-2-(2H-1,2,3-triazol-2-yl)benzonitrile (1.6 g, 29%), ^{1}H NMR ($CDCl_3$): 7.99 (s, *J* = 6.6 Hz, 2H), 7.67 - 7.63 (m, 1 H), 7.61 - 7.53 (m, 2H), 7.26 (s, 6 H) and 3-fluoro-2-(1 H-1,2,3-triazol-1-yl)benzonitrile (2.0 g, 38%) ^{1}H NMR ($CDCl_3$): 7.97 (dd, *J* = 4.4, 2.8 Hz, 1 H), 7.95 (d, *J* = 1.2 Hz, 1 H), 7.70 (tt, *J* = 5.7, 2.8 Hz, 1 H), 7.65 (td, *J* = 8.1, 4.9 Hz, 1 H), 7.62 - 7.57 (m, 1 H).

[0254] Step B: 3-Fluoro-2-(2H-1,2,3-triazol-2-yl)benzoic acid. To 3-fluoro-2-(2H-1,2,3-triazol-2-yl)benzonitrile (1.5 g, 8.0 mmol) in MeOH (30 mL) was added 2M aq. NaOH (10 mL). The reaction was heated at reflux for 15h, then cooled to rt, acidified with 1 N aq. HCl to pH=1 and extracted with DCM (2X). The combined organics were washed with brine and dried (Na_2SO_4). Purification via Agilent (Reverse-Phase HPLC, basic conditions) gave the title compound (290 mg, 18%). ^{1}H NMR ($CDCl_3$): 7.90 (s, 2H), 7.89 - 7.85 (m, 1 H), 7.63 - 7.56 (m, 1 H), 7.50 - 7.44 (m, 1 H) and 3-methoxy-2-(2H-1,2,3-triazol-2-yl)benzoic acid (Intermediate 53, 140 mg, 8%).

Intermediate 53: 3-Methoxy-2-(2H-1,2,3-triazol-2-yl)benzoic acid.

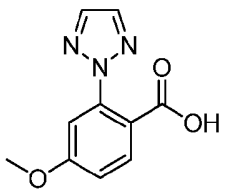
[0255]



[0256] The title compound was obtained during the synthesis of Intermediate 52, Step B. ^{1}H NMR ($CDCl_3$): 7.92 - 7.83 (m, 2H), 7.66 (dd, *J* = 7.9, 1.3 Hz, 1 H), 7.61-7.54 (m, 1 H), 7.27 (dd, *J* = 8.4, 1.2 Hz, 1 H), 3.82 (s, 3H).

Intermediate 54: 4-Methoxy-2-(2H-1,2,3-triazol-2-yl)benzoic acid.

[0257]

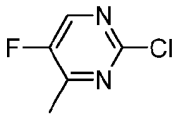


[0258] The title compound was prepared in a manner analogous to Intermediate 12, substituting 2-bromo-4-methoxy-

benzoic acid for 5-fluoro-2-iodo-benzoic acid in Step A. Upon purification, two fractions were obtained, one containing pure 4-methoxy-2-(2H-1,2,3-triazol-2-yl)benzoic acid (^{1}H NMR ($CDCl_3$): 7.99 - 7.90 (m, 1 H), 7.83 (s, 2H), 7.20 (d, *J* = 2.5 Hz, 1 H), 7.03 (dd, *J* = 8.8, 2.6 Hz, 1 H), 3.89 (s, *J* = 17.6 Hz, 3H), and the other containing a mixture of 4-methoxy-2-(2H-1,2,3-triazol-2-yl)benzoic acid and 4-methoxy-2-(1H-1,2,3-triazol-2-yl)benzoic acid.

Intermediate 55: 2-Chloro-5-fluoro-4-methylpyrimidine.

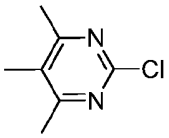
[0259]



[0260] To a solution of 2,4-dichloro-5-fluoropyrimidine (1.02 g, 6.08 mmol) in THF/NMP (38 mL/3 mL) was added $Fe(acac)_3$ (215 mg, 0.61 mmol) and the mixture was cooled to 0 °C. 3.0 M methylmagnesium bromide in Et_2O (3.04 mL, 9.12 mmol) was added dropwise. After 30 min at 0 °C, the reaction was complete and quenched with saturated aqueous NH_4Cl solution. Et_2O was added and the layers were separated and the aqueous layer was further extracted with several portions of Et_2O. The combined organic extracts were dried over Na_2SO_4, filtered and concentrated *in vacuo.* Chromatography (Hexanes to 10% EtOAc/Hexanes) gave the desired product as a waxy white solid (430 mg, 48%). ^{1}H NMR (400 MHz, $CDCl_3$): 8.35 (s, 1 H), 2.55 (d, *J* = 2.5 Hz, 3H).

Intermediate 56: 2-Chloro-4,5,6-trimethylpyrimidine.

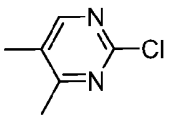
[0261]



[0262] To 4,5,6-trimethylpyrimidin-2-ol (3.69 g, 26.7 mmol) was added $POCl_3$ (21.7 mL, 26.7 mmol) followed by Et_2NPh (2.17 mL, 13.6 mmol) dropwise. The mixture was heated at reflux for 48 h and then added to ice dropwise. The aqueous layer was extracted with EtOAc (2x). Extraction was difficult due to a large amount of precipitate. The aqueous layer pH was adjusted to pH 4-5 with 28% NH_4OH and was filtered through Celite®. The aqueous layer was then extracted with DCM and the combined organic extracts dried over Na_2SO_4, filtered and concentrated in vacuo to a yellow solid. Chromatography (FCC) (0 to 30% EtOAc/Hex) afforded 2-chloro-4,5,6-trimethylpyrimidine (4.26 g, 100%).

Intermediate 57: 2-Chloro-4,5-dimethylpyrimidine.

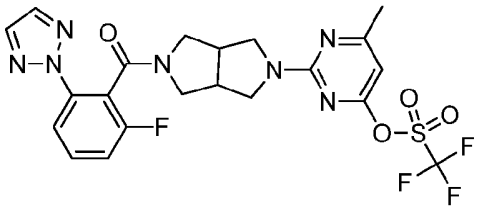
[0263]



[0264] The title compound was prepared in a manner analogous to Intermediate 55, substituting 2,4-dichloro-5-methylpyrimidine for 2,4-dichloro-5-fluoropyrimidine. MS (ESI): mass calculated for $C_6H_7ClN_2$, 142.03, m/z found 143.1 $[M+1]^+$. ^{1}H NMR (500 MHz, $CDCl_3$): 8.32 - 8.25 (m, 1 H), 2.52 - 2.46 (m, 3H), 2.28 - 2.22 (m, 3H).

Intermediate 58: 2-(5-(2-Fluoro-6-(2H-1,2,3-triazol-2-yl)benzoyl)hexahydro-pyrrolo[3,4-c]pyrro1-2(1H)-yl)-6-methylpyrimidin-4-yl trifluoromethanesulfonate.

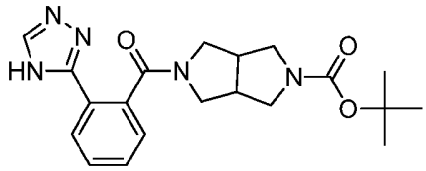
[0265]



[0266] To a solution of 2-[5-{[2-fluoro-6-(2H-1,2,3-triazol-2-yl)phenyl]carbonyl} hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl]-6-methylpyrimidin-4-ol (1.02 g, 2.5 mmol) in THF (12 mL) was added 1.0 M KOtBu in THF (5 mL, 5 mmol) followed by N-phenylbis(trifluoromethanesulfonimide) (0.893 g, 2.5 mmol). The mixture was stirred at room temperature overnight and then diluted with 2 M aq. K_2CO_3 solution and the layers separated. The aqueous layer was extracted with DCM and the combined organic layers were dried over Na_2SO_4, filtered and concentrated under reduced pressure. Chromatography (FCC, Hexanes to 100% EtOAc) afforded the desired product (1.07 g, 79%) plus a small amount of 2-{[2-fluoro-6-(2H-1,2,3-triazol-2-yl)phenyl]carbonyl}-5-(4-methoxy-6-methylpyrimidin-2-yl)octahydropyrrolo[3,4-c]pyrrole (55 mg, 5%) due to residual MeOH in the pyrimidine starting material. MS (ESI): mass calculated for $C_{21}H_{19}F_4N_7O_4S$, 541.12, m/z found 542.1 $[M+1]^+$.

Intermediate 59: tert-Butyl 5-{[2-(4H-1,2,4-triazol-3-yl)phenyl]carbonyl}hexahydropyrrolo[3,4-c]pyrrole-2(1H)-carboxylate.

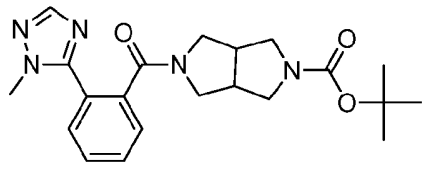
[0267]



[0268] To a solution of Intermediate 15 (1.0 g, 4.73 mmol) in DCM (24 mL) was added 2-(4H-[1,2,4]triazol-3-yl)-benzoic acid (895 mg, 4.73 mmol) followed by EDCI (1.36 g, 7.09 mmol), HOBt (959 mg, 7.09 mmol) and TEA (1.97 mL, 14.19 mmol). The mixture was stirred for 14 h at room temperature and then washed 2x with saturated aqueous NH_4Cl solution. The organic layer was dried over Na_2SO_4, filtered and concentrated *in vacuo.* Chromatography (DCM to 8% 2M NH_3 in MeOH/DCM) afforded the desired product as a pale yellow foam (1.36 g, 75%). MS (ESI): mass calculated for $C_{20}H_{25}N_5O_3$, 383.45, m/z found 384.1 $[M+1]^+$. ^1H NMR (500 MHz, $CDCl_3$): 12.62 (s, 1 H), 8.19 - 8.03 (m, 2H), 7.56-7.44 (m, 2H), 7.39 - 7.32 (m, 1 H), 3.96 - 2.72 (m, 10H), 1.53 - 1.35 (m, 9H).

Intermediate 60: tert-Butyl 5-{[2-(1-methyl-1H-1,2,4-triazol-5-yl)phenyl]carbonyl}hexahydropyrrolo[3,4-c]pyrrole-2(1H)-carboxylate.

[0269]

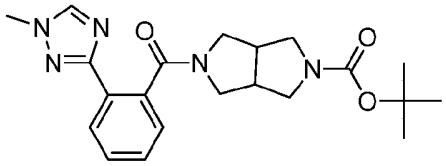


[0270] To a heterogeneous mixture of NaH (60% dispersion in mineral oil, 80 mg, 2 mmol) in DMF (4 mL) was added Intermediate 59 (641 mg, 1.67 mmol) in DMF (4 mL). 30 min after gas evolution had ceased methyliodide (0.115 mL, 1.84 mmol) was added dropwise. The mixture was diluted with H_2O and extracted with EtOAc. The combined organic extracts were dried over Na_2SO_4, filtered and concentrated *in vacuo.* Chromatography (DCM to 8% 2 M NH_3 in MeOH/DCM) afforded two products, tert-butyl 5-{[2-(1-methyl-1H-1,2,4-triazol-5-yl)phenyl]carbonyl}hexahydropyrrolo[3,4-c]pyrrole-2(1H)-carboxylate (120 mg, 18%) and tert-butyl 5-{[2-(1-methyl-1H-1,2,4-triazol-3-yl)phenyl]carbonyl}hexahydropyrrolo[3,4-c]pyrrole-2(1H)-carboxylate (454 mg, 68%) due to the tautomeric nature of the 1,2,4-triazole moiety. MS (ESI): mass calculated for $C_{21}H_{27}N_5O_3$, 397.21, m/z found 398.2 $[M+1]^+$. ^1H NMR (500 MHz, $CDCl_3$): 7.90 (s, 1 H), 7.61

- 7.41 (m, 4H), 3.83 (s, 3H), 3.74 - 3.36 (m, 5H), 3.29 - 3.12 (m, 3H), 2.88 - 2.75 (m, 2H), 1.47 (s, 9H).

Intermediate 61: tert-Butyl 5-{[2-(1-methyl-1H-1,2,4-triazol-3-yl)phenyl]carbonyl}hexahydropyrrolo[3,4-c]pyrrole-2(1H)-carboxylate.

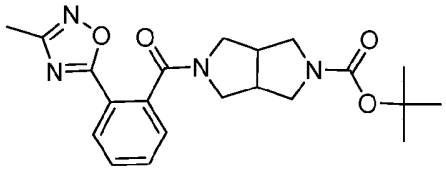
[0271]



[0272] The title compound was isolated from the synthesis of Intermediate 60. MS (ESI): mass calculated for $C_{21}H_{27}N_5O_3$, 397.21, m/z found 398.2 $[M+1]^+$. ^1H NMR (500 MHz, $CDCl_3$): 8.15 - 8.07 (m, 1 H), 8.03 (s, 1 H), 7.49 - 7.40 (m, 2H), 7.37 - 7.29 (m, 1 H), 3.97 - 3.86 (m, 3H), 3.86 - 3.27 (m, 6H), 3.18 - 2.73 (m, 4H), 1.54 - 1.36 (m, 9H).

Intermediate 62: tert-Butyl 5-{[2-(3-methyl-1,2,4-oxadiazol-5-yl)phenyl]carbonyl}hexahydropyrrolo[3,4-c]pyrrole-2(1H)-carboxylate.

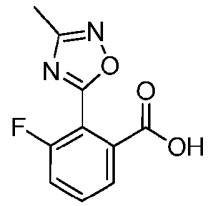
[0273]



[0274] The title compound was prepared in a manner analogous to Intermediate 59 substituting 2-(3-methyl-1,2,4-oxadiazol-5-yl)benzoic acid for 2-(4H-[1,2,4]triazol-3-yl)-benzoic acid. MS (ESI) mass calculated for $C_{21}H_{26}N_4O_4$, 398.20; m/z found, 399.2. ^1H NMR (500 MHz, $CDCl_3$): 8.12 (d, J = 7.8 Hz, 1 H), 7.63 (td, J = 7.6 Hz, 1.2 Hz, 1 H), 7.55 (td, J = 7.7 Hz, 1.3 Hz, 1 H), 7.42 (d, J = 7.5 Hz, 1 H), 3.97 - 3.86 (m, 1 H), 3.76 - 3.61 (m, 2H), 3.56 - 3.33 (m, 3H), 3.29 - 3.15 (m, 1 H), 3.08 - 2.93 (m, 2H), 2.90 - 2.82 (m, 1 H), 2.45 (s, 3H), 1.51 - 1.41 (m, 9H).

Intermediate 63: 3-Fluoro-2-(3-methyl-1,2,4-oxadiazol-5-yl)benzoic acid.

[0275]



Method A:

[0276] Step A: 2-Fluoro-6-(methoxycarbonyl)benzoic acid. 3-Fluorophthalic anhydride (377 mg, 2.27 mmol) was dissolved in MeOH (6 mL) and heated to reflux for 15 h. The mixture was concentrated *in vacuo* and the two products (400 mg, 89%), 2-fluoro-6-(methoxycarbonyl)benzoic acid and 3-fluoro-2-(methoxycarbonyl)benzoic acid, were taken on to the next step without purification.

[0277] Step B: (Z)-Methyl 2-((((1-aminoethylidene)amino)oxy)carbonyl)-3-fluorobenzoate. To a heterogeneous mixture of the two acids from step A (400 mg, 2 mmol) at 0 °C in DCM (5 mL) was added oxalyl chloride (0.244 mL, 2.32 mmol) followed by DMF (0.05 mL). Gas evolution commenced immediately and after 5 min the ice bath was removed. When gas evolution had ceased and the mixture was homogeneous an aliquot was removed and quenched with MeOH.

Formation of the methyl ester was confirmed by HPLC and the mixture was concentrated *in vacuo.* The viscous liquid was dissolved in fresh DCM (5 mL) and treated with solid N-hydroxyacetamidine (165 mg, 2.22 mmol) in several portions followed by TEA (0.351 mL, 2.52 mmol). After stirring for 14 h at ambient temperature the mixture was concentrated *in vacuo.* Chromatography (Hex to 100% EtOAc/Hex) afforded two products (477 mg, 94%), (Z)-methyl 2-((((1-aminoethylidene)amino)oxy)carbonyl)-3-fluorobenzoate and (Z)-methyl 2-((((1-aminoethylidene)amino)oxy)carbonyl)-6-fluorobenzoate, which were taken on to the next step as a mixture. MS (ESI) mass calculated for $C_{11}H_{11}FN_2O_4$, 254.07; m/z found, 255.0.

[0278] Step C: 3-Fluoro-2-(3-methyl-1,2,4-oxadiazol-5-yl)benzoic acid. To the mixture of products from Step B (477 mg, 1.88 mmol) in t-BuOH (9 mL) was added NaOAc (156 mg, 1.88 mmol). The mixture was heated at 90 °C for 50 h and then concentrated *in vacuo.* This resulted in four products. The residue was dissolved in 1 M aq. K_2CO_3 and extracted with DCM to isolate methyl 2-fluoro-6-(3-methyl-1,2,4-oxadiazol-5-yl)benzoate and methyl 3-fluoro-2-(3-methyl-1,2,4-oxadiazol-5-yl)benzoate along with unreacted (Z)-methyl 2-((((1-aminoethylidene)amino)oxy)carbonyl)-3-fluorobenzoate. The aqueous layer was then acidified with concentrated HCl and extracted with DCM. The combined organic layers from this extraction were dried over Na_2SO_4, filtered and concentrated *in vacuo.* The acid isomers were purified on a Prep Agilent system with a XBridge C_{18} OBD 50x100 mm column eluting with 5 to 99% 0.05% NH_4OH in H_2O/ACN over 17 min to afford the desired product (63 mg, 15%) as a white solid after acidification with 1 M aq. HCl in Et_2O. MS (ESI) mass calculated for $C_{10}H_7FN_2O_3$, 222.04; m/z found, 223.0.

Method B:

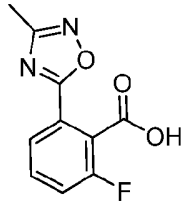
[0279] Step A: (Z)-N'-((2-Fluoro-6-iodobenzoyl)oxy)acetimidamide. To a heterogeneous mixture of 2-fluoro-6-iodobenzoic acid (1.51 g, 5.66 mmol) at 0 °C in DCM (28 mL) was added oxalyl chloride (0.635 mL, 7.36 mmol) followed by DMF (0.15 mL). Gas evolution commenced immediately and after 5 min the ice bath was removed. When gas evolution had ceased and the mixture was homogeneous an aliquot was removed and quenched with MeOH. Formation of the methyl ester was confirmed by HPLC and the mixture was concentrated *in vacuo.* The viscous liquid was dissolved in fresh DCM (28 mL) and treated with solid N-hydroxyacetamidine (503 mg, 6.79 mmol) in several portions followed by TEA (1.2 mL, 8.49 mmol) at 0 °C. After stirring for 14 h at ambient temperature the mixture was washed with saturated aqueous $NaHCO_3$ solution. The combined organic extracts were dried over Na_2SO_4, filtered and concentrated *in vacuo.* Chromatography (Hex to 100% EtOAc/Hex) afforded the desired product as a colorless oil (1.57 g, 86%). MS (ESI) mass calculated for $C_9H_8FIN_2O_2$, 321.96; m/z found, 323.0. 1 H NMR (500 MHz, $CDCl_3$): 7.70-7.65 (m, 1 H), 7.15 - 7.11 (m, 2H), 4.87 (br s, 2H), 2.06 (s, 3H).

[0280] Step B: 5-(2-Fluoro-6-iodophenyl)-3-methyl-1,2,4-oxadiazole. To a heterogeneous mixture of the product of Step A in t-BuOH (24 mL) was added NaOAc(603 mg, 7.27 mmol) in H_2O (0.9 mL). The mixture was then heated to 110 °C for 12 days. The reaction was concentrated *in vacuo* and then dissolved in toluene. The toluene was then filtered to remove NaOAc and then concentrated *in vacuo.* Chromatography (Hex to 40% EtOAc/Hex) afforded the desired product as a colorless oil (1.21 g, 82%). MS (ESI) mass calculated for $C_9H_6FIN_2O$, 303.95; m/z found, 304.9. 1 H NMR (500 MHz, $CDCl_3$): 7.82-7.77 (m, 1 H), 7.29 - 7.20 (m, 2H), 2.55 (s, 3H).

[0281] Step C: 3-Fluoro-2-(3-methyl-1,2,4-oxadiazol-5-yl)benzoic acid. To THF (15 mL) was added 2 M i-PrMgCl in THF (2.2 mL, 4.47 mmol). This mixture was cooled to -78 °C and the product of Step B (1.09 g, 3.58 mmol) was added dropwise in THF (20 mL). The mixture was stirred for 30 min at -78 °C and then CO_2 from a lecture bottle was bubbled into the solution for 3 h while allowing the temperature to slowly rise. When the temperature reached -20 °C the dry ice bath was replaced with an ice bath, bubbling of CO_2 was ceased and the mixture was allowed to come to room temperature overnight. The mixture was quenched by the addition of H_2O and a small amount of Et_2O. The organic layer was washed 2x with 2N aq. NaOH and the combined aqueous layers were then washed 3x with Et_2O. The aqueous layer was then acidified with concentrated HCl and extracted with DCM. The combined organic layers were dried over Na_2SO_4, filtered and concentrated *in vacuo* to afford the desired product as a white solid (661 mg, 83%). MS (ESI) mass calculated for $C_{10}H_7FN_2O_3$, 222.04; m/z found, 223.0. 1 H NMR (500 MHz, $CDCl_3$): 7.96 (d, J = 7.8, 1 H), 7.72 - 7.64 (m, 1 H), 7.50 - 7.44 (m, 1 H), 2.56 - 2.48 (m, 3H).

Intermediate 64: 2-Fluoro-6-(3-methyl-1,2,4-oxadiazol-5-yl)benzoic acid.

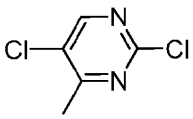
[0282]



[0283] The title compound was isolated from the synthesis of Intermediate 63, Method A. MS (ESI) mass calculated for $C_{10}H_7FN_2O_3$, 222.04; m/z found, 223.0. ^{1}H NMR (500 MHz, $CDCl_3$): 7.89 (d, *J* = 7.7, 1 H), 7.65 - 7.59 (m, 1 H), 7.44 - 7.38 (m, 1H), 2.50 (s, 3H).

Intermediate 65: 2,5-Dichloro-4-methylpyrimidine.

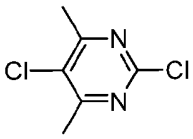
[0284]



[0285] The title compound was prepared in a manner analogous to Intermediate 55, substituting 2,4,5-trichloropyrimidine for 2,4-dichloro-5-fluoropyrimidine. ^{1}H NMR (500 MHz, $CDCl_3$): 8.47 (s, 1 H), 2.61 (s, 3H).

Intermediate 66: 2,5-Dichloro-4,6-dimethylpyrimidine.

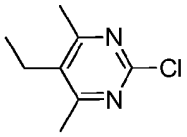
[0286]



[0287] To 5-chloro-4,6-dimethylpyrimidin-2-ol (992 mg, 6.26 mmol) was added $POCl_3$ (2.22 mL, 23.77 mmol) followed by Et_2NPh (0.75 mL, 4.69 mmol) dropwise. The mixture was heated at 125°C for 2 h. At approximately 2 h the reaction became homogeneous and was checked by HPLC and it showed all starting material had been consumed. The mixture was allowed to cool to room temperature and was then added dropwise to ice. After the ice had melted there was a white solid in a pink liquid. The aqueous layer was extracted with DCM and the combined organic layers were dried over Na_2SO_4, filtered and concentrated *in vacuo.* Chromatography (Hex to 10% EtOAc/Hex) afforded the desired product as a white solid (915 mg, 83%). ^{1}H NMR (500 MHz, $CDCl_3$): 2.57 (s, 6H).

Intermediate 67: 2-Chloro-5-ethyl-4,6-dimethylpyrimidine.

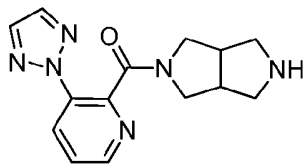
[0288]



[0289] The title compound was prepared in a manner analogous to Intermediate 56, substituting 5-ethyl-4,6-dimethylpyrimidin-2-ol for 4,5,6-trimethylpyrimidin-2-ol. MS (ESI): mass calculated for $C_8H_{11}ClN_2$, 170.06, m/z found 171.1 $[M+1]^+$. ^{1}H NMR (500 MHz, $CDCl_3$): 2.65 (q, *J* = 7.6 Hz, 2H), 2.50 (s, 6H), 1.15 (t, *J* = 7.6 Hz, 3H).

Intermediate 68: (3-(2H-1,2,3-Triazol-2-yl)pyridin-2-yl)(hexahydropyrrolo[3,4-c]pyrrol-2(1 H)-yl)methanone.

[0290]

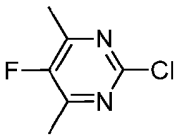


[0291] Step A: tert-Butyl 5-(3-(2H-1,2,3-triazol-2-yl)picolinoyl)hexahydropyrrolo[3,4-c]pyrrole-2(1H)-carboxylate. tert-Butyl 5-(3-(2H-1,2,3-triazol-2-yl)picolinoyl)hexahydropyrrolo[3,4-c]pyrrole-2(1H)-carboxylate was prepared in a manner analogous to Intermediate 59 substituting 3-[1,2,3]triazol-2-yl-pyridine-2-carboxylic acid (Intermediate 72) for 2-(4H-[1,2,4]triazol-3-yl)-benzoic acid. MS (ESI) mass calculated for $C_{19}H_{24}N_6O_3$, 384.19; m/z found, 385.1.

[0292] Step B: (3-(2H-1,2,3-Triazol-2-yl)pyridin-2-yl)(hexahydropyrrolo[3,4-c]pyrrol-2(1 H)-yl)methanone. tert-Butyl 5-(3-(2H-1,2,3-triazol-2-yl)picolinoyl)hexahydropyrrolo[3,4-c]pyrrole-2(1H)-carboxylate (491 mg, 1.28 mmol) in DCM (6 mL) was added TFA (3 mL). After stirring for 2 h at room temperature the reaction was complete and concentrated *in vacuo.* The TFA salt was purified on a Prep Agilent system with a XBridge C_{18} OBD 50X100 mm column eluting with 5 to 99% 0.05% NH_4OH in H_2O/ACN over 17 min to afford (3-(2H-1,2,3-triazol-2-yl)pyridin-2-yl)(hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl)methanone as a white solid (306 mg, 84%). MS (ESI) mass calculated for $C_{14}H_{16}N_6O$, 284.14; m/z found, 285.0.

Intermediate 69: 2-Chloro-5-fluoro-4,6-dimethylpyrimidine.

[0293]



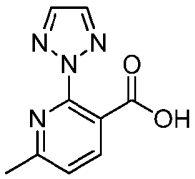
[0294] Step A: 5-Fluoropyrimidine-2,4,6-triol. To a heterogeneous mixture of urea (641 mg, 10.67 mmol) and diethyl-fluoromalonate (1.96 g, 10.67 mmol) in EtOH (11 mL) was added 2.68 M NaOEt in EtOH (7.96 mL, 21.34 mmol). The mixture was heated at reflux for 60 h and then allowed to cool to room temperature. The mixture was filtered and the cake was then dissolved in warm water and the resulting solution was acidified with concentrated HCl to pH 2. The mixture was allowed to cool to room temperature and then cooled in an ice bath before filtering. The cake was washed with water and dried to afford 5-fluoropyrimidine-2,4,6-triol as a slightly off white solid (1.45 g, 93%).

[0295] Step B: 2,4,6-Trichloro-5-fluoropyrimidine. To $POCl_3$ (4.49 mL, 48.15 mmol) was added 5-fluoropyrimidine-2,4,6-triol (1.41 g, 9.63 mmol) in several portions. There was a 2 °C increase in temperature. The N,N-dimethylaniline (1.23 mL, 9.73 mmol) was then added dropwise and the mixture heated at 110 °C for 24 h. The reaction mixture was allowed to cool only briefly and then was quenched by dropwise addition onto ice. When the ice was melted the aqueous layer was extracted several times with Et_2O. The combined organic extracts were dried over Na_2SO_4, filtered and concentrated *in vacuo* to a yellow solid after storing in the refrigerator overnight. This material was not purified further, but taken on to the next step without further purification.

[0296] Step C: 2-Chloro-5-fluoro-4,6-dimethylpyrimidine was prepared in a manner analogous to Intermediate 55, substituting 2,4,6-trichloro-5-fluoropyrimidine for 2,4-dichloro-5-fluoropyrimidine. ^1H NMR (500 MHz, $CDCl_3$): 2.50 (d, J = 2.7 Hz, 6H).

Intermediate 70: 6-Methyl-2-[1,2,3]triazol-2-yl-nicotinic acid.

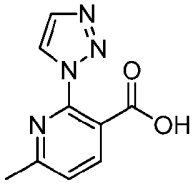
[0297]



[0298] 6-Methyl-2-[1,2,3]triazol-2-yl-nicotinic acid. To a 100 ml round bottom flask containing 2-chloro-6-methylnicotinic acid (3 g, 17.4 mmol), copper iodide (0.16 g, 0.5 mol%), and cesium carbonate (11.4 g, 35 mmol) was added a mixture of dioxane (20 mL) and H_2O (0.1 ml, 5.25 mmol). Next triazole (2.03 mL, 35 mmol) and finally (R,R)-(-)-N,N'-dimethyl-1,2-cyclohexanediamine ligand (0.56 mL, 3.5 mmol) were added. The resulting clumpy yellow slurry was stirred until evenly dispersed. Upon heating to 100 °C the reaction mixture changed from a yellow slurry to pale green. As heating progressed the slurry became less thick and was stirred more easily. The light green slurry was stirred for 4 hr at 100 °C and left to stir at room temp overnight. At this point the reaction mixture appeared as a cobalt blue slurry which was then diluted with 20 mL ether and 20 mL H_2O. The resulting solution was thoroughly stirred and transferred to a seperatory funnel then the RBF was subsequently rinsed with 20 mL ether and H_2O each. The aqueous layer was separated from the organic layer and acidified to pH 1 with 6 mL conc. HCl. The now brown/ lime green aqueous layer was extracted twice with EtOAc. The bright yellow organic layers were combined and dried with Na_2SO_4 and then conc. into a yellow powder under reduced pressure. To the yellow powder was added EtOAc to form a yellow slurry. The solids were filtered off and washed with EtOAc to give a very pale yellow powder, which was found by ^{1}H NMR to be the Intermediate 71 (25% yield). The filtrate was conc. into a yellow solid and purified (FCC, 0-5% MeOH in DCM w/ 0.5% AcOH) to give the title product in a 20% yield. MS (ESI): mass calculated for $C_9H_8N_4O_2$, 204.18; m/z found 205.3 $[M+H]^+$. ^{1}H NMR (400 MHz, CD_3OD): 8.21 - 8.18 (m, 1 H), 7.98 (s, 2H), 7.51 (d, *J* = 7.9 Hz, 1 H), 2.64 (s, 3H).

Intermediate 71: 6-Methyl-2-[1,2,3]triazol-1-yl-nicotinic acid.

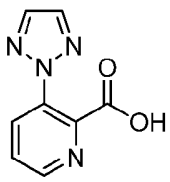
[0299]



[0300] The title compound was isolated as a byproduct from the procedure used to prepare Intermediate 70 with a 25% yield. MS (ESI): mass calculated for $C_9H_8N_4O_2$, 204.18; m/z found 205.3 $[M+H]^+$. ^{1}H NMR (400 MHz, CD_3OD): 8.48 (d, *J* = 1.1 Hz, 1 H), 8.25 (dd, *J* = 7.9, 3.8 Hz, 1 H), 7.88 (d, *J* = 1.1 Hz, 1 H), 7.54 (d, *J* = 7.9 Hz, 1 H), 2.64 (s, 3H).

Intermediate 72: 3-[1,2,3]Triazol-2-yl-pyridine-2-carboxylic acid.

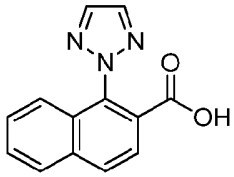
[0301]



[0302] The title compound was prepared in a manner analogous to Intermediate 70 substituting 3-bromo-2-pyridine-carboxylic acid for 2-chloro-6-methylnicotinic acid. MS (ESI): mass calculated for $C_8H_6N_4O_2$, 190.10; m/z found 191.1 $[M+H]^+$. ^{1}H NMR (400 MHz, $CDCl_3$): 8.77 (d, *J* = 4.3 Hz, 1 H), 8.26 (dt, *J* = 6.5, 3.3 Hz, 1 H), 7.88 (s, 2H), 7.65 (dd, *J* = 8.2, 4.7 Hz, 1 H).

Intermediate 73: 1-[1,2,3]Triazol-2-yl-naphthalene-2-carboxylic acid.

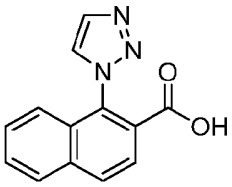
[0303]



[0304] The title compound was prepared in a manner analogous to Intermediate 70 substituting 1-bromo-2-napthoic acid for 2-chloro-6-methylnicotinic acid. The title compound was obtained (484 mg, 50%). MS (ESI): mass calculated for $C_{13}H_9N_3O_2$, 239.23; m/z found 240.3 $[M+H]^+$. ^1H NMR (400 MHz, CD_3OD): 8.19 (d, *J* = 8.7 Hz, 1 H), 8.09 - 8.03 (m, 4H), 7.70 - 7.66 (m, 1 H), 7.58 (ddd, *J* = 8.2, 6.9, 1.2 Hz, 1 H), 7.25 (d, *J* = 8.6 Hz, 1 H).

Intermediate 74: 1-[1,2,3]Triazol-1-yl-naphthalene-2-carboxylic acid.

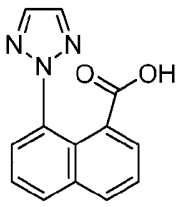
[0305]



[0306] The title compound was isolated as a byproduct from the preparation of Intermediate 73 (25% yield). MS (ESI): mass calculated for $C_{13}H_9N_3O_2$, 239.23; m/z found 240.3 $[M+H]^+$. ^1H NMR (400 MHz, CD_3OD): 8.33 (d, *J* = 0.9 Hz, 1 H), 8.24 (d, *J* = 8.6 Hz, 1 H), 8.14 - 8.07 (m, 2H), 8.01 (d, *J* = 0.9 Hz, 1 H), 7.71 (t, *J* = 7.6 Hz, 1 H), 7.60 (t, *J* = 7.7 Hz, 1 H), 7.11 (d, *J* = 8.5 Hz, 1 H).

Intermediate 75: 8-[1,2,3]Triazol-2-yl-naphthalene-1-carboxylic acid.

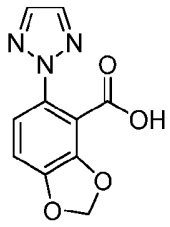
[0307]



[0308] The title compound was prepared in a manner analogous to Intermediate 70 substituting 8-bromo-2-napthoic acid for 2-chloro-6-methylnicotinic acid. The desired 8-[1,2,3]triazol-2-yl-naphthalene-1-carboxylic acid was obtained (474mg, 16%). MS (ESI): mass calculated for $C_1H_9N_3O_2$, 239.20; m/z found 240.3 $[M+H]^+$. ^1H NMR (400 MHz, CD_3OD): 8.13 (t, *J* = 9.0 Hz, 2H), 7.95 - 7.91 (m, 3H), 7.82 (dd, *J* = 7.4, 1.0 Hz, 1 H), 7.70 (dd, *J* = 9.8, 5.8 Hz, 1 H), 7.64-7.59 (m, 1 H).

Intermediate 76: 5-[1,2,3]Triazol-2-yl-benzo[1,3]dioxole-4-carboxylic acid.

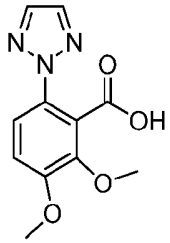
[0309]



[0310] The title compound was prepared in a manner analogous to Intermediate 70 substituting 5-bromobenzo[1,3]dioxole-4-carboxylic acid for 2-chloro-6-methylnicotinic acid. MS (ESI): mass calculated for $C_{10}H_7N_3O_4$, 233.18; m/z found 234.3 $[M+H]^+$ ^1H NMR (400 MHz, CD_3OD): 7.85 (s, 2H), 7.23 (d, *J* = 8.4 Hz, 1 H), 7.04 (d, *J* = 8.4 Hz, 1 H), 6.16 (s, 2H).

Intermediate 77: 2,3-Dimethoxy-6-[1,2,3]triazol-2-yl-benzoic acid.

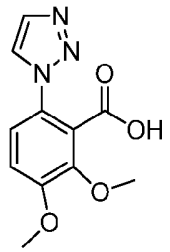
[0311]



[0312] To a 20 ml microwave vial containing 2-bromo-4,5-dimethoxybenzoic acid (3 g, 11.5 mmol), copper iodide (0.04 g, 0.5 mol%), cesium carbonate (7.5 g, 23 mmol), triazole (1.33 mL, 23 mmol) and finally (R,R)-(-)-N,N'-dimethyl-1,2-cyclohexanediamine ligand (0.36 mL, 2.3 mmol) was added DMF (12 mL). The resulting clumpy yellow slurry was stirred until evenly dispersed then heated to 120°C for 10-20 min using a microwave. At this point the reaction mixture appeared as a blue slurry which was then diluted with 20 mL ether and 20 mL H_2O. The resulting solution was thoroughly stirred and transferred to a separatory funnel then the RBF was subsequently rinsed with 20 mL ether and H_2O each. The aqueous layer was separated from the organic layer and acidified to pH 1 with 6 mL conc. HCl. The now brown/ lime green aqueous layer was extracted twice with EtOAc. The bright yellow organic layers were combined and dried with Na_2SO_4 and then conc. into a yellow powder under reduced pressure which was purified by FCC (0-5% MeOH in DCM w/ 0.5% AcOH) to afford 2,3-dimethoxy-6-[1,2,3]triazol-2-yl-benzoic acid (60%) and 2,3-dimethoxy-6-[1,2,3]triazol-1-yl-benzoic acid (20%). Data for 2,3-dimethoxy-6-[1,2,3]triazol-2-yl-benzoic acid, MS (ESI): mass calculated for $C_{11}H_{11}N_3O_4$, 249.23; m/z found 250.3 $[M+H]^+$. ^1H NMR (400 MHz, CD_3OD): 7.87 (s, 2H), 7.47 (s, 1H), 7.18 (s, 1H), 3.94 (s, 3H), 3.91 (s, 3H).

Intermediate 78: 2,3-Dimethoxy-6-[1,2,3]triazol-1-yl-benzoic acid

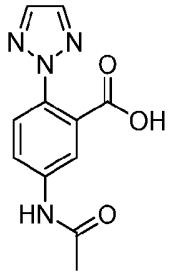
[0313]



[0314] The title compound was isolated from the procedure used to prepare Intermediate 77 with a 20% yield. MS (ESI): mass calculated for $C_{11}H_{11}N_3O_4$, 249.23; m/z found 250.3 $[M+H]^+$. ^1H NMR (400 MHz, CD_3OD): 8.17 (d, *J* = 1.0 Hz, 1 H), 7.82 (d, *J* = 1.0 Hz, 1 H), 7.62 (s, 1 H), 7.09 (s, 1 H), 3.95 (s, 3H), 3.91 (s, 3H).

Intermediate 79: 5-Acetylamino-2-[1,2,3]triazol-2-yl-benzoic acid.

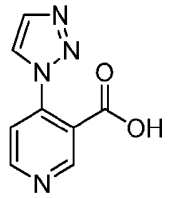
[0315]



[0316] The title compound was prepared in a manner analogous to Intermediate 70 substituting 5-acetamido-2-bromobenzoic acid for 2-bromo-4,5-dimethoxybenzoic acid. MS (ESI): mass calculated for $C_{11}H_{10}N_4O_3$, 246.22; m/z found 247.3 $[M+H]^+$. ^1H NMR (400 MHz, CD_3OD): 8.09 (t, *J* = 2.8 Hz, 1 H), 7.92 - 7.86 (m, 3H), 7.66 (dd, *J* = 8.7, 3.3 Hz, 1 H), 2.17 (dd, *J* = 2.5, 1.3 Hz, 3H).

Intermediate 80: 4-(1H-1,2,3-Triazol-1-yl)nicotinic acid.

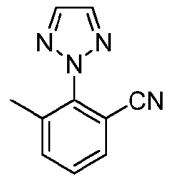
[0317]



[0318] The title compound was prepared in a manner analogous to Intermediate 70 substituting 4-chloronicotinic acid for 2-chloro-6-methylnicotinic acid. MS (ESI): mass calculated for $C_{11}H_{10}N_4O_3$, 246.22; m/z found 247.3 $[M+H]^+$. ^1H NMR (400 MHz, CD_3OD): 8.09 (t, *J* = 2.8 Hz, 1 H), 7.92 - 7.86 (m, 3H), 7.66 (dd, *J* = 8.7, 3.3 Hz, 1 H), 2.17 (dd, *J* = 2.5, 1.3 Hz, 3H).

Intermediate 81: 3-Methyl-2-(2H-1,2,3-triazol-2-yl)benzonitrile.

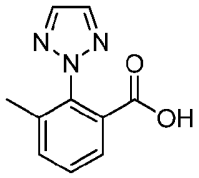
[0319]



[0320] To a mixture of 2-fluoro-3-methylbenzonitrile (4.0 g, 29.6 mmol) and 2H-1,2,3-triazole (2.04 g, 29.6 mmol) in DMF (80 mL) was added potassium carbonate (8.26 g, 59.2 mmol). The resulting mixture was heated to 120 °C for 2h. The mixture was cooled, diluted with water and extracted with EtOAc. The organic layers were combined, dried over Na_2SO_4, filtered and concentrated. The residue was purified by FCC (SiO_2, ethyl acetate/hexanes, gradient 0-50%) to yield the title compound (1.5 g, 26%). MS (ESI) mass calcd. for $C_{10}H_8N_4$, 184.2; m/z found, 185.1 $[M+H]+$. ^1H NMR (500 MHz, $CDCl_3$): 7.95 (s, 2H), 7.66 (d, *J* = 7.7, 0.7 Hz, 1 H), 7.59 (d, *J* = 7.8, 0.6 Hz, 1 H), 7.50 (dd, *J* = 9.8, 5.7 Hz, 1 H), 2.20 (s, 3H).

Intermediate 82: 3-Methyl-2-(2H-1,2,3-triazol-2-yl)benzoic acid

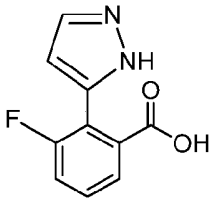
[0321]



[0322] To a solution of 3-methyl-2-(2H-1,2,3-triazol-2-yl)benzonitrile (1.4 g, 7.82 mmol) in MeOH (15 mL) was added a 4N aqueous solution of NaOH (10 mL). The resulting mixture was heated to 90 °C. After 15h the reaction mixture was cooled to ambient temperature then diluted with water (50 mL). The aqueous layer was acidified to pH2 and extracted with EtOAc (50 mL) three times. The organic layers were combined, dried over Na_2SO_4, filtered and concentrated. The residue was purified by FCC (SiO_2, gradient DCM to 10% MeOH/1 %HOAc/DCM) to yield the title compound (1.3 g, 78%). ^{1}H NMR (500 MHz, $CDCl_3$): 7.90 (d, *J* = 7.7, Hz, 1 H), 7.83 (s, 2H), 7.57 - 7.53 (m, 1 H), 7.49 (dd, *J* = 9.7, 5.8 Hz, 1 H), 2.10 (s, 3H).

Intermediate 83: 3-Fluoro-2-(1H-pyrazol-5-yl)benzoic acid.

[0323]



Method A:

[0324] Step A: 2-Bromo-3-fluorobenzonitrile (1.0 g, 5.0 mmol) and (1 H-pyrazol-5-yl)boronic acid (647 mg, 4.6 mmol) were combined and dissolved in degassed DME (15 mL) then treated with $NaHCO_3$ (1260 mg, 8.4 mmol) in water and the reaction purged with bubbling N_2 for 5 minutes. The reaction was treated with $Pd(PPh_3)_4$ (288 mg, 0.2 mmol) and then purged with bubbling for 5 minutes in a sealed vessel and then heated to reflux for 2 h. The reaction was then cooled to 23 °C filtered and the solids were rinsed with EtOAc and the layers separated. The organic layers were combined, dried and concentrated under reduced pressure. Chromatography (0-30% ethyl acetate / hexanes) afforded 3-fluoro-2-(1H-pyrazol-5-yl)benzonitrile (178 mg,19%).

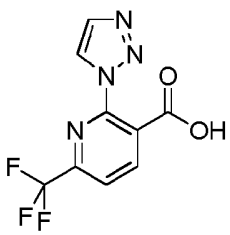
[0325] Step B: To 3-fluoro-2-(1H-pyrazol-5-yl)benzonitrile in MeOH (3 mL) was added 2M aq. NaOH (1 mL). The reaction was heated at reflux for 15h, then cooled to rt, acidified with 1 N aq. HCl to pH=1 and extracted with EtOAc to give (210 mg, 99%) of 3-fluoro-2-(1H-pyrazol-5-yl)benzoic acid which was used crude.

Method B:

[0326] The title compound was prepared in a manner analogous to Intermediate 51, substituting methyl 2-iodo-3-fluorobenzoate for methyl 2-bromo-5-fluorobenzoate in Step A. MS (ESI): mass calculated for $C_{10}H_7FN_2O_2$, 206.05; m/z found 207.0 $[M+1]^+$.

Intermediate 84: 2-(1 H-1,2,3-Triazol-1-yl)-6-(trifluoromethyl)nicotinic acid.

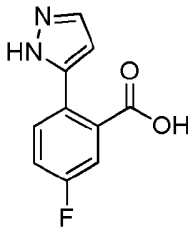
[0327]



[0328] The title compound was prepared in a manner analogous to Intermediate 13, substituting 2-chloro-6-(trifluoromethyl)nicotinic acid for 5-fluoro-2-iodo-benzoic acid in step A, and substituting 1,4-dioxane for MeOH as the solvent, with 0.3 eq of water as an additive. ^{1}H NMR (400 MHz, DMSO-d_6): 8.64 (s, 1H), 8.37 (d, J = 7.6 Hz, 1 H), 8.11 (d, J = 7.8 Hz, 1 H), 7.93 (s, 1 H).

Intermediate 85: 5-Fluoro-2-(1H-pyrazol-5-yl)benzoic acid.

[0329]

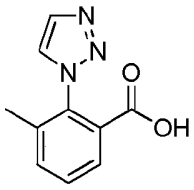


[0330] Step A: Methyl-2-fluoro-bromobenzoate (1.0 gram, 4.2 mmol) and (1 H-pyrazol-5-yl)boronic acid (485 mg, 4.6 mmol) were combined and dissolved in degassed DME (15 mL) then treated with $NaHCO_3$ (706 mg, 8.4 mmol) in water and the reaction purged with bubbling N_2 for 5 minutes. The reaction was treated with $Pd(PPh_3)_4$ (243 mg (0.2 mmol) and then purged with bubbling for 5 minutes in a sealed vessel and then heated to reflux for 2 h. The reaction mixture was cooled to 23 °C, filtered, and the solid was rinsed with EtOAc and the layers separated. The organic layers were combined, dried and concentrated. Chromatography (ethyl acetate/hexanes, 0-30%) gave methyl 5-fluoro-2-(1 H-pyrazol-5-yl)benzoate (415 mg, 44%).

[0331] Step B: A solution of methyl 5-fluoro-2-(1H-pyrazol-5-yl)benzoate (415 mg, 1.9 mmol) in EtOH (10 mL) was treated with 4.0 eq of LiOH and stirred and monitored for two hours the reaction was complete. Reaction was made to pH = 5, and then the solution concentrated under reduced pressure during which time a ppt formed. The reactions was then concentrated to minimum volume and cooled in ice, then filtered and washed with ice water to give 5-fluoro-2-(1H-pyrazol-5-yl)benzoic acid (172 mg, 44% yield). ^{1}H NMR (400 MHz, DMSO-d_6): 13.03 (s, 1 H), 7.71 (d, J = 2.0 Hz, 1 H), 7.67 (dd, J = 8.3, 5.6 Hz, 1 H), 7.37 (td, J = 8.6, 2.9 Hz, 2H), 6.44 (d, J = 2.2 Hz, 1 H).

Intermediate 86: 3-Methyl-2-(1H-1,2,3-triazol-1-yl)benzoic acid.

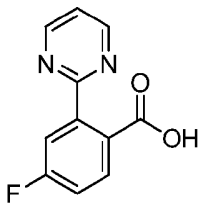
[0332]



[0333] The title compound was prepared in a manner analogous to Intermediate 82, substituting 3-methyl-2-(1H-1,2,3-triazol-1-yl)benzonitrile for 3-methyl-2-(2H-1,2,3-triazol-2-yl)benzonitrile. ^{1}H NMR (500 MHz, $CDCl_3$): 8.17 (s, 1 H), 7.94 (s, 1 H), 7.69 (d, J = 6.8 Hz, 1 H), 7.65 (d, J = 7.7 Hz, 1 H), 7.63 - 7.56 (m, 1 H), 2.06 (s, 3H).

Intermediate 87: 4-Fluoro-2-(pyrimidin-2-yl)benzoic acid.

[0334]

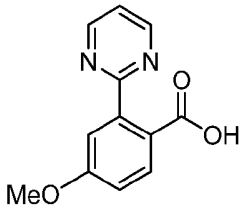


[0335] Step A: 2-Iodo-4-fluorobenzonitrile (2.54 g, 10.3 mmol) and 2-tributylstannane pyrimidine (3.69 g, 10.0 mmol) were dissolved in domethoxyethane (18 mL) and treated with tetrakistriphenylphosphine palladium (0) (578 mg, 0.5 mmol) and copper (I) iodide (95 mg, 0.5 mmol). The reaction was then heated to 160 °C for 90 minutes in the microwave. The reaction was cooled, concentrated under reduced pressure. Chromatography (20-100% EA in hexanes) gave the desired product. ^{1}H NMR (400 MHz, $CDCl_3$): 8.93 (d, *J* = 4.9 Hz, 2H), 8.14 (dd, *J* = 9.6, 2.7 Hz, 1 H), 7.86 (dd, *J* = 8.6, 5.3 Hz, 1 H), 7.36 (t, *J* = 4.9 Hz, 1 H), 7.32 - 7.23 (m, 1 H).

[0336] Step : 4-Fluoro-2-(pyrimidin-2-yl)benzonitrile (85 mg, 0.4 mmol) was hydrolyzed to the acid in water (1 mL) by addition of 18 M H_2SO_4 (1 mL). The reaction was heated at 100 °C for 10 min, then cooled to 23 °C, and extracted with EtOAc (3 x 5 mL). The combined organics were dried (Na_2SO_4) and concentrated under reduced pressure. This material was used crude in subsequent reactions.

Intermediate 88: 4-Methoxy-2-(pyrimidin-2-yl)benzoic acid.

[0337]

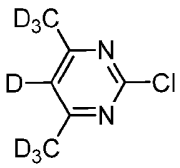


[0338] Step A: 4-Methoxy-2-(pyrimidin-2-yl)benzonitrile was prepared in a manner analogous to Intermediate 87. ^{1}H NMR (400 MHz, $CDCl_3$): 8.93 (d, *J* = 4.9 Hz, 2H), 8.14 (dd, *J* = 9.6, 2.7 Hz, 1 H), 7.86 (dd, *J* = 8.6, 5.3 Hz, 1 H), 7.36 (t, *J* = 4.9 Hz, 1 H), 7.32 - 7.23 (m, 1 H).

[0339] Step B: 4-Methoxy -2-(pyrimidin-2-yl)benzonitrile (85 mg, 0.4 mmol) was dissolved in MeOH (20 mL) was treated with 2M aq NaOH (15 mL). The reaction was heated at reflux overnight, the reaction was cooled to room temperature and filtered to remove the solids and washed with cold MeOH. The filtrate was concentrated to minimum volume and then acidified to pH=3 with 6 N aq. HCl and cooled to 0 °C then filtered and washed with cold water. This material was used crude in subsequent reactions.

Intermediate 89: 2-Chloro-4,4,4,5,6,6,6-septadeuteriopyrimidine.

[0340]



[0341] Step A: 1,1,1,3,3,3,5,5-Octadeuteriopentane-2,4-dione. To a solution of acetylacetone (10 mL, 95.1 mmol) in D_2O (90 mL) was added K_2CO_3 (1.0 g, 7.29 mmol). The mixture was heated at 120 °C overnight. The aqueous layer was extracted with DCM and the combined organic layers were dried over Na_2SO_4, filtered and concentrated in vacuo to an orange liquid (Frediani et. al., Catalysis Comm. 2, 2001, 125).

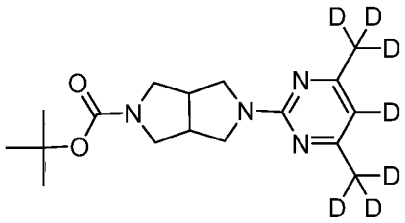
[0342] Step B: 2-Deuteriohydroxy-4,4,4,5,6,6,6-septadeuteriopyrimidine. To a solution of 1,1,1,3,3,3,5,5-Octadeuteriopentane-2,4-dione (product of Step A) (1.60 g, 14.82 mmol) in EtOD (7 mL) was added urea-d_4 (0.95 g, 14.82 mmol) followed by 35% wt. DCl in D_2O (2 mL, 23.71 mmol). The mixture was heated at 90 °C for 36 h, cooled to room temperature

and then chilled in an ice bath before filtration and washing of the white solid with cold EtOD to afford the desired product as the DCl salt (1.53 g, 61 %).

[0343] Step C: 2-Chloro-4,4,4,5,6,6,6-septadeuteriopyrimidine. To 2-deuteriohydroxy-4,4,4,5,6,6,6-septadeuteriopyrimidine (product of Step B) (1.53 g, 9.04 mmol) was added $POCl_3$ (7.9 mL, 9.04 mmol) and the mixture was heated at reflux for 16 h. The mixture was allowed to cool to room temperature and then added to ice drop wise. The aqueous mixture was neutralized to pH 6 in an ice bath with 5 N NaOH. The aqueous layer was extracted with DCM and the combined organic layers were dried over Na_2SO_4, filtered and concentrated in vacuo to afford the desired product as a yellow solid (1.3 g, 96%). (ESI): mass calculated for $C_6D_7ClN_2$, 149.07; m/z found, 150.1.

Intermediate 90: tert-Butyl 5-{4,6-bis[($^2H_3$)methyl](^2H)pyrimidin-2-yl}hexahydropyrrolo[3,4-c]pyrrole-2(1H)-carboxylate.

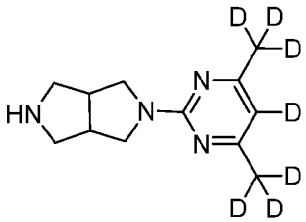
[0344]



[0345] A mixture of Intermediate 15 (294 mg, 1.38 mmol), Intermediate 89 (207 mg, 1.38 mmol) and DIPEA (0.48 mL, 2.77 mmol) in ACN (3.5 mL) was heated in the microwave at 150 °C for 2 h. The mixture was concentrated *in vacuo.* The crude mixture was purified by FCC (Hex to 50% EtOAc/Hex) to afford the title compound (344 mg, 76%). MS (ESI): mass calculated for $C_{17}H_{19}D_7N_4O_2$, 325.25; m/z found 326.2 $[M+1]^+$. 1H NMR (500 MHz, $CDCl_3$): 3.86 - 3.76 (m, 2H), 3.67 - 3.50 (m, 4H), 3.37 - 3.24 (m, 2H), 2.98 - 2.90 (m, 2H), 1.44 (s, 9H).

Intermediate 91: 5-{4,6-Bis[($^2H_3$)methyl](^2H)pyrimidin-2-yl}hexahydropyrrolo[3,4-c]pyrrole.

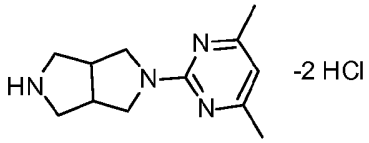
[0346]



[0347] Intermediate 90 (325 mg, 1 mmol), DCM (5 mL) and TFA (1 mL) were stirred at room temperature for 2 h. The mixture was concentrated *in vacuo* and was used as is. MS (ESI): mass calculated for $C_{12}H_{11}D_7N_4$, 225.25; m/z found 225.2 $[M+1]^+$.

Intermediate 92: 2-(4,6-Dimethylpyrimidin-2-yl)octahydropyrrolo[3,4-c]pyrrole, bis-HCl salt.

[0348]

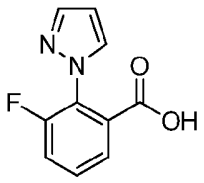


[0349] A 150 mL EasyMax reactor was fitted with a mechanical stirrer, a reflux condenser and a temperature probe and 2-chloro-4,6-dimethyl pyrimidine (7.10 g, 49.8 mmol), potassium carbonate (9.77 g, 70.7 mmol), N-boc-3,7diazabicylco[3.3.0]octane (10.03 g, 47.3 mmol) and 2-propanol (54.2 g) were added. The reaction was slurried at 20

°C for 5 minutes and then the temperature was raised to 80 °C over 30 minutes. The reaction was then stirred at 80 °C for 8 hours, cooled to 20 °C within 30 minutes and allowed to stand overnight. To the resulting mixture was added toluene (15.8 g) and the mixture was stirred at 30 °C for 30 minutes prior to removing all salts by suction filtration. The reactor and filter cake were then washed with toluene (20.2 g) and the resulting filtrates (~115 mL) were added to a 150 mL EasyMax reactor held at a temperature of 20 °C. 5-6 N HCl in 2-propanol (25.90 g) was then added dropwise over a 30 minute period. The mixture was then heated to 60 °C over 20 minutes and stirred for 4 hours. After approximately 1.5 hours crystallization of the product started and the yellowish suspension was then cooled to 0-5 °C and was then stirred for another 1.5 hours. The product was then isolated via suction filtration and washed with 2-propanol (25.0 g) in two portions. The resulting wet product cake was dried in vacuo at 50 °C overnight then at 70 °C for 4 hours to obtain the title compound (11.52 g, 77%) as an off-white crystalline solid. Purity was assessed by HPLC (99.5%, 99.7%, and 99.5area% (at 254, 235, and 280 nm, respectively). HCl content was determined to be 25.26%.

Intermediate 93: 3-Fluoro-2-(1H-pyrazol-1-yl)benzoic acid.

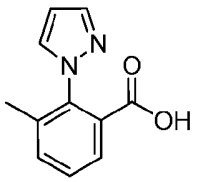
[0350]



[0351] 3-Fluoro-2-(1H-pyrazol-1-yl)benzoic acid. To a mixture of 3-fluoro-2-iodobenzoic acid (1.4 g, 5.26 mmol), 1 H-pyrazole (0.72 g, 10.5 mmol), *trans*-N,N'-dimethyl-cyclohexane-1,2-diamine (0.17 mL, 1.05 mmol), CuI (50.1 mg, 0.26 mmol), dioxane (50 mL) and water (0.028 mL) was added Cs_2CO_3 (3.43 g, 10.5 mmol). The reaction mixture was heated to 100 °C for 1 h. The reaction mixture was cooled to ambient temperature then diluted with water. The aqueous layer was acidified to pH2 and extracted with EtOAc (30 mL) three times. The organic layers were combined, dried over Na_2SO_4, filtered and concentrated. Purification (FCC), (DCM to 10% MeOH/1%HOAC/DCM) afforded the title compound as a colorless oil (790 mg, 72%). ^{1}H NMR (400 MHz, $CDCl_3$): 7.85 - 7.73 (m, 1 H), 7.54 - 7.44 (m, 1 H), 7.44 - 7.34 (m, 1 H), 6.55 (s, 1 H).

Intermediate 94: 3-Methyl-2-(1H-pyrazol-1-yl)benzoic acid.

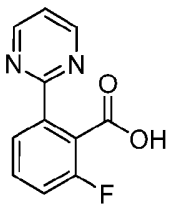
[0352]



[0353] The title compound was prepared in a manner analogous to Intermediate 93 substituting 3-methyl-2-iodobenzoic acid for 3-fluoro-2-iodobenzoic acid. ^{1}H NMR (500 MHz, $CDCl_3$): 7.79 (d, *J* = 7.4 Hz, 2H), 7.48 (d, *J* = 7.5 Hz, 1 H), 7.42 (t, *J* = 7.6 Hz, 1 H), 6.53 (s, 1 H), 2.07 (s, 3H).

Intermediate 95: 2-Fluoro-6-(pyrimidin-2-yl)benzoic acid.

[0354]



[0355] Step A: 2-Fluoro-6-iodo-benzoic acid methyl ester. To a 200 mL round-bottomed flask were added 2-fluoro-6-iodo-benzoic acid (7.5 g, 28.2 mmol), $LiOH•H_2O$ (1.42 g, 33.8 mmol), and THF (100 mL). The resulting mixture was warmed to 50 °C and stirred for 2 h. Dimethyl sulfate (4.03 mL, 42.3 mmol) was then added and the mixture was warmed to 65 °C. After 2 h, the mixture was cooled to room temperature and $NH_4Cl_{(aq)}$ (50 mL, 13 wt% solution) was added. The two resulting layers were thoroughly mixed and then separated. The organic layer was dried over $MgSO_4$, filtered, and concentrated under reduced pressure to a light brown oil (7.79 g, 99% yield). ^{1}H NMR (400 MHz, $CDCl_3$): 7.68 - 7.60 (m, 1 H), 7.15 - 7.06 (m, 2H), 3.98 (s, 3H).

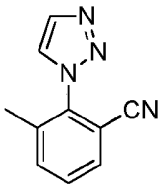
[0356] Step B: 2-Fluoro-6-(4,4,5,5-tetramethyl-[1,3,2]dioxaborolan-2-yl)-benzoic acid methyl ester. To a 500 mL round-bottomed flask were added 2-fluoro-6-iodo-benzoic acid methyl ester (7.29, 26.0 mmol) and anhydrous THF (150 mL). This mixture was cooled to 0 °C and *i*-PrMgCl (13.7 mL, 2 M in THF, 27.3 mmol) was added dropwise. After 10 min, 2-isopropoxy-4,4,5,5-tetramethyl-1,3,2-dioxaborolane (5.58 mL, 27.3 mmol) was added. The mixture was allowed to warm to room temperature, and after 30 min $NH_4Cl_{(aq)}$ (150 mL, 13 wt% solution) was added. The layers were mixed and then separated, and the aqueous layer was extracted with 100 mL of MTBE. The combined organic layers were dried over Na_2SO_4, filtered, and concentrated to a final mass of 6.07 g (90% wt%, 75% yield). ^{1}H NMR (400 MHz, $CDCl_3$): 7.47 - 7.38 (m, 2H), 7.17 - 7.11 (m, 1 H), 3.92 (s, 3H), 1.36 (s, 12H).

[0357] Step C: 2-Fluoro-6-pyrimidin-2-yl-benzoic acid methyl ester. To a 250 mL round-bottomed flask under nitrogen were added 2-fluoro-6-(4,4,5,5-tetramethyl-[1,3,2]dioxaborolan-2-yl)-benzoic acid methyl ester (5.46 g, 19.5 mmol) in 2-methyl-THF (50 mL), 2-chloropyrimidine (2.68 g, 23.4 mmol), and sodium carbonate (6.2 g, 58.5 mmol) in water (17 mL). $PdCl_2$(dppf)-dcm adduct (CAS#72287-26-4) (1.27 g, 1.56 mmol) was then added and the reaction mixture was warmed to 74 °C and stirred for 2.5 h. After cooling, the mixture was diluted with MTBE (50 mL) and water (80 mL). The layers were thoroughly mixed separated. The aqueous layer was extracted with additional MTBE (100 mL). The combined organics were dried over magnesium sulfate, filtered, concentrated and then purified by flash chromatography (0-25% EA/hexanes) to provide the title compound (1.72 g, 72 wt%, 30% yield). ^{1}H NMR (400 MHz, $CDCl_3$): 8.79 (d, *J* = 4.9 *Hz,* 2H), 8.15 (d, *J* = 7.9 *Hz,* 1 H), 7.51 (td, *J* = 8.1, 5.6 *Hz,* 1 H), 7.28-7.20 (m, 2H), 3.92 (s, 3H).

[0358] Step D: 2-Fluoro-6-pyrimidin-2-yl-benzoic acid. To a solution of 2-fluoro-6-pyrimidin-2-yl-benzoic acid methyl ester (1.36 g, 5.85 mmol) in 2-methyl-THF (20 mL) was added sodium hydroxide (2 M in water, 9.3 mL, 18.6 mmol). The mixture was heated to 72 °C and stirred for 9 h. The layers were separated and the aqueous layer acidified to pH 2 by dropwise addition of 50% $HCl_{(aq)}$ (3.1 mL). The resulting solids were stirred for 1 h, filtered, washed with water, MTBE, and heptanes, and then dried to provide the desired product as a white solid (1.12 g, 88% yield). ^{1}H NMR (400 MHz, CD_3OD): 8.83 (d, *J* = 4.9 Hz, 2H), 8.03 (dd, *J* = 7.9, 0.8 *Hz,* 1 H), 7.59 (td, *J* = 8.1, 5.6 Hz, 1 H), 7.40 (t, *J* = 4.9 *Hz,* 1 H), 7.34 (ddd, *J* = 9.4, 8.4, 1.0 *Hz,* 1 H).

Intermediate 96: 3-Methyl-2-(1H-1,2,3-triazol-1-yl)benzonitrile.

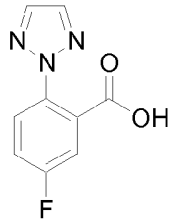
[0359]



The title compound was a byproduct of the synthesis of Intermediate 81 (3.1 g, 56%). MS (ESI) mass calcd. for $C_{10}H_8N_4$, 184.2; m/z found, 185.1 $[M+H]^+$. ^{1}H NMR (500 MHz, $CDCl_3$): 7.94 (d, *J* = 2.1 Hz, 1 H), 7.87 (d, *J* = 1.1 Hz, 1 H), 7.71 - 7.67 (m, 1 H), 7.67 - 7.62 (m, 1 H), 7.56 (dd, *J* = 9.7, 5.8 Hz, 1 H), 2.17 (s, 3H).

Intermediate 97: 5-Fluoro-2-[1,2,3]triazol-2-yl-benzoic acid.

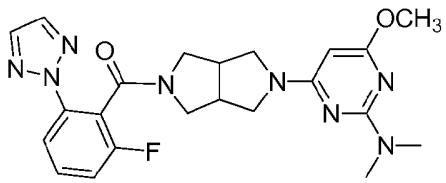
[0360]



[0361] 5-Fluoro-2-[1,2,3]triazol-2-yl-benzoic acid. To a solution of 5-fluoro-2-iodo-benzoic acid (3.86 g, 14.65 mmol), 2H-[1,2,3]triazole (2.5 g, 36.2 mmol), Cs_2CO_3 (8.62 g, 24.5 mmol), *trans*-N,N'-dimethyl-cyclohexane-1,2-diamine (0.4 mL), CuI (244 mg) and DMF (13 mL) were added to a microwave ready vessel and heated to 100 °C for 10 min. The mixture was cooled, diluted with water, and extracted with EtOAc. The aqueous layer was acidified and extracted with EtOAc. The organic layer was dried over Na_2SO_4 and concentrated. The residue was purified by FCC (SiO_2, gradient DCM to 10% MeOH/1% HOAc/DCM) gave the product as a white powder, (2.14 g, 71%). ^{1}H NMR (400 MHz, CD_3OD): 7.91 (s, 2H), 7.76 (dd, *J* = 8.9, 4.8 Hz, 1 H), 7.59 (dd, *J* = 8.5, 2.9 Hz, 1 H), 7.49 - 7.42 (m, 1 H).

Example 1: 4-[5-{[2-Fluoro-6-(2H-1,2,3-triazol-2-yl)phenyl]carbonyl}hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl]-6-methoxy-N,N-dimethylpyrimidin-2-amine.

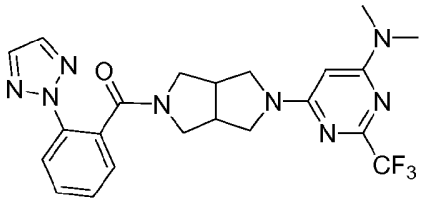
[0362]



A mixture of [4-(Hexahydro-pyrrolo[3,4-c]pyrrol-2-yl)-6-methoxy-pyrimidin-2-yl]-dimethyl-amine (60.0 mg, 0.23 mmol), 2-fluoro-6-[1,2,3]triazol-2-yl-benzoic acid (52.0 mg, 0.25 mmol), HATU (130.0 mg, 0.34 mmol) and DIPEA (0.12 mL, 0.68 mmol) was stirred into DMF (4.0 mL) at room temperature for 30 minutes. The reaction mixture was diluted with ethyl acetate (60.0 mL) and washed with water (2 X 100 mL). The organic phase was dried (Na_2SO_4), filtered and concentrated to dryness to yield crude title compound (354.0 mg, 343 %). The crude product was purified using Agilent HPLC (Basic system) to yield pure title compound (84.0 mg, 81.5 %). MS (ESI) mass calcd. for $C_{22}H_{25}FN_8O_2$,452.49; m/z found 453.3 $[M+H]^+$. ^{1}H NMR ($CDCl_3$): 7.88-7.79 (m, 2H), 7.72 (d, *J* = 6.7, 1 H), 7.54-7.41 (m, 1 H), 7.19-7.08 (m, 1 H), 5.02-4.92 (m, 1 H), 3.96-3.86 (m, 1 H), 3.87-3.83 (m, 3H), 3.81-3.50 (m, 5H), 3.43-3.19 (m, 2H), 3.15-3.09 (m, 6H)), 3.09-2.91 (m, 2H).

Example 2: N,N-Dimethyl-6-[5-{[2-(2H-1,2,3-triazol-2-yl)phenyl]carbonyl}hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl]-2-(trifluoromethyl)pyrimidin-4-amine.

[0363]

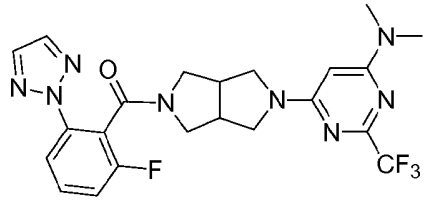


[0364] A mixture of [6-(hexahydro-pyrrolo[3,4-c]pyrrol-2-yl)-2-trifluoromethyl-pyrimidin-4-yl]-dimethyl-amine (50 mg, 0.17 mmol), 2-[1,2,3]triazol-2-yl-benzoic acid (34.5 mg, 0.18 mmol), HATU (94.6 mg, 0.25 mmol) and DIPEA (0.09 mL, 0.50 mmol) in DMF (4.0 mL) was stirred at room temperature for 30 minutes. The reaction mixture was diluted with ethyl acetate (60.0 mL) and washed with water (2 X 100 mL). The organic phase was dried (Na_2SO_4), filtered and concentrated to dryness. The crude product was purified using Agilent HPLC (Basic system) to yield pure title compound (34.0 mg, 43.4 %). MS (ESI) mass calcd. for $C_{22}H_{23}F_3N_8O$, 472.47; m/z found 473.2 $[M+H]^+$. ^{1}H NMR ($CDCl_3$): 7.98 (d, *J* = 8.1,

1 H), 7.70-7.69 (m, 2H), 7.56-7.49 (m, 1 H), 7.45-7.37 (m, 2H), 5.20-5.10 (m, 1 H), 3.90-3.66 (m, 4H), 3.60-3.28 (m, 4H), 3.08 (s, 6H), 3.02-2.89 (m, 2H).

Example 3: 6-[5-{[2-Fluoro-6-(2H-1,2,3-triazol-2-yl)phenyl]carbonyl}hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl]-N,N-dimethyl-2-(trifluoromethyl)pyrimidin-4-amine.

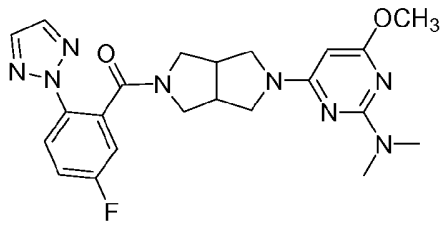
[0365]



[0366] A mixture of [6-(hexahydro-pyrrolo[3,4-c]pyrrol-2-yl)-2-trifluoromethyl-pyrimidin-4-yl]-dimethyl-amine (50 mg, 0.17 mmol), 2-fluoro-6-[1,2,3]triazol-2-yl-benzoic acid (37.8 mg, 0.18 mmol), HATU (94.6 mg, 0.25 mmol) and DIPEA (0.09 mL, 0.50 mmol) in DMF (4.0 mL) was stirred at room temperature for 30 minutes. The reaction mixture was diluted with ethyl acetate (60.0 mL) and washed with water (2 X 100 mL). The organic phase was dried (Na_2SO_4), filtered and concentrated to dryness. The crude product was purified using Agilent HPLC (Basic system) to yield pure title compound (19.0 mg, 23.4 %). MS (ESI) mass calcd. for $C_{22}H_{22}F_4N_8O$, 490.46; m/z found $[M+H]^+$. ^1H NMR ($CDCl_3$): 7.89-7.79 (m, 2H), 7.74 (s, 1 H), 7.55-7.37 (m, 1 H), 7.21-7.05 (m, 1 H), 5.25-5.09 (m, 1 H), 4.25-3.51 (m, 6H), 3.50-2.95 (m, 10H).

Example 4: 4-[5-{[5-Fluoro-2-(2H-1,2,3-triazol-2-yl)phenyl]carbonyl}hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl]-6-methoxy-N,N-dimethylpyrimidin-2-amine.

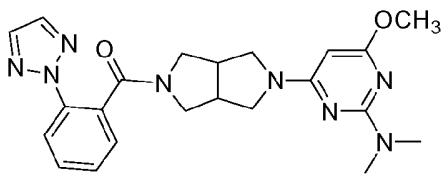
[0367]



[0368] A mixture of [4-(hexahydro-pyrrolo[3,4-c]pyrrol-2-yl)-6-methoxy-pyrimidin-2-yl]-dimethyl-amine (60.0 mg, 0.23 mmol), 5-fluoro-2-[1,2,3]triazol-2-yl-benzoic acid (52.0 mg, 0.25 mmol), HATU (130.0 mg, 0.34 mmol) and DIPEA (0.12 mL, 0.68 mmol) was stirred into DMF (4.0 mL) at room temperature for 30 minutes. The reaction mixture was diluted with ethyl acetate (60.0 mL) and washed with water (2 X 100 mL). The organic phase was dried (Na_2SO_4), filtered and concentrated to dryness. The crude product was purified using Agilent HPLC (Basic system) to yield pure title compound (160.0 mg, 54%). MS (ESI) mass calcd. for $C_{22}H_{25}FN_80_2$, 452.49; m/z found 453.3 $[M+H]^+$. ^1H NMR ($CDCl_3$): 7.95 (dd, J = 9.0, 4.8, 1 H), 7.73 (s, 2H), 7.25-7.17 (m, 1 H), 7.16-7.10 (m, 1 H), 5.00-4.90 (m, 1 H), 3.92-3.78 (m, 4H), 3.76-3.25 (m, 6H), 3.18-3.07 (m, 6H), 3.05-2.86 (m, 3H).

Example 5: 4-Methoxy-N,N-dimethyl-6-[5-{[2-(2H-1,2,3-triazol-2-yl)phenyl]carbonyl}hexahydropyrrolo-[3,4-c]pyrrol-2(1H)-yl]pyrimidin-2-amine.

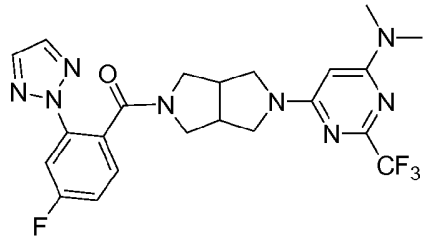
[0369]



A mixture of [4-(hexahydro-pyrrolo[3,4-c]pyrrol-2-yl)-6-methoxy-pyrimidin-2-yl]-dimethyl-amine (60.0 mg, 0.23 mmol), 2-[1,2,3]triazol-2-yl-benzoic acid (47.4 mg, 0.25 mmol), HATU (130.0 mg, 0.34 mmol) and DIPEA (0.12 mL, 0.68 mmol) was stirred into DMF (4.0 mL) at room temperature for 30 minutes. The reaction mixture was diluted with ethyl acetate (60.0 mL) and washed with water (2X 100 mL). The organic phase was dried (Na_2SO_4), filtered and concentrated to dryness. The crude product was purified using Agilent HPLC (Basic system) to yield pure title compound (47.0 mg, 47.5 %). MS (ESI) mass calcd. for $C_{22}H_{26}N_8O_2$, 434.5; m/z found $[M+H]^+$. ^1H NMR ($CDCl_3$): 7.98 (d, *J* = 8.1, 1 H), 7.73 (s, 2H), 7.75 (s, 2H), 7.55-7.47 (m, 1 H), 7.45-7.37 (m, 2H), 5.00-4.90 (m, 1 H), 3.91-3.80 (m, 5H), 3.70 (dd, *J* = 12.5, 3.9, 2H), 3.60-3.29 (m, 4H), 3.19-3.04 (m, 8H).

Example 6: 6-[5-{[4-Fluoro-2-(2H-1,2,3-triazol-2-yl)phenyl]carbonyl}hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl]-N,N-dimethyl-2-(trifluoromethyl)pyrimidin-4-amine.

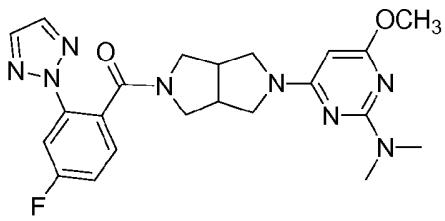
[0370]



[0371] A mixture of [6-(hexahydro-pyrrolo[3,4-c]pyrrol-2-yl)-2-trifluoromethyl-pyrimidin-4-yl]-dimethyl-amine (50 mg, 0.17 mmol), 4-fluoro-6-[1,2,3]triazol-2-yl-benzoic acid (37.8 mg, 0.18 mmol), HATU (94.6 mg, 0.25 mmol) and DIPEA (0.09 mL, 0.50 mmol) in DMF (4.0 mL) was stirred at room temperature for 30 minutes. The reaction mixture was diluted with ethyl acetate (60.0 mL) and washed with water (2X 100 mL). The organic phase was dried (Na_2SO_4), filtered and concentrated to dryness. The crude product was purified using Agilent HPLC (Basic system) to yield pure title compound (42.0 mg, 51.6 %). MS (ESI) mass calcd. for $C_{22}H_{22}F_4N_8O$, 490.46; m/z found $[M+H]^+$. ^1H NMR ($CDCl_3$): 7.90-7.65 (m, 3H), 7.57-7.35 (m, 1 H), 7.18-7.02 (m, 1 H), 5.23-5.05 (m, 1 H), 4.02-3.20 (m, 7H), 3.16-2.84 (m, 9H).

Example 7: 4-[5-{[4-Fluoro-2-(2H-1,2,3-triazol-2-yl)phenyl]carbonyl}hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl]-6-methoxy-N,N-dimethylpyrimidin-2-amine.

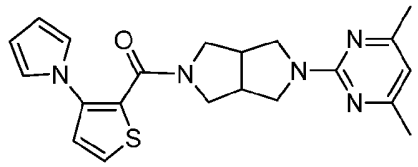
[0372]



[0373] A mixture of [4-(hexahydro-pyrrolo[3,4-c]pyrrol-2-yl)-6-methoxy-pyrimidin-2-yl]-dimethyl-amine (60.0 mg, 0.23 mmol), 4-fluoro-2-[1,2,3]triazol-2-yl-benzoic acid (52.0 mg, 0.25 mmol), HATU (130.0 mg, 0.34 mmol) and DIPEA (0.12 mL, 0.68 mmol) was stirred into DMF (4.0 mL) at room temperature for 30 minutes. The reaction mixture was diluted with ethyl acetate (60.0 mL) and washed with water (2X 100 mL). The organic phase was dried (Na_2SO_4), filtered and concentrated to dryness. The crude product was purified using Agilent HPLC (Basic system) to yield pure title compound (52.0 mg, 50.5 %). MS (ESI) mass calcd. for $C_{22}H_{25}FN_8O_2$, 452.49; m/z found $[M+H]^+$. ^1H NMR ($CDCl_3$): 7.83-7.66 (m, 3H), 7.42-7.36 (m, 1 H), 7.16-7.08 (m, 1 H), 5.00-4.89 (m, 1 H), 3.90-3.78 (m, 4H), 3.77-3.19 (m, 6H), 3.17-2.82 (m, 9H).

Example 8: 2-(4,6-Dimethylpyrimidin-2-yl)-5-{[3-(1H-pyrrol-1-yl)thiophen-2-yl]carbonyl}octahydro-pyrrolo[3,4-c]pyrrole.

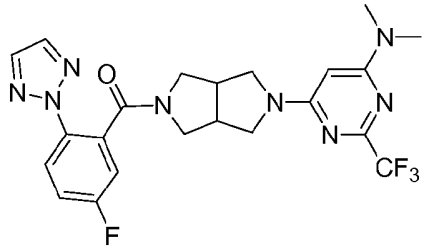
[0374]



[0375] A mixture of 2-(4,6-dimethyl-pyrimidin-2-yl)-octahydro-pyrrolo[3,4-c]pyrrole (60.0 mg, 0.28 mmol), 3-pyrrol-1-yl-thiophene-2-carboxylic acid (58.4 mg, 0.30 mmol), HATU (156.8 mg, 0.41 mmol) and DIPEA (106.6 mg, 0.83 mmol) was stirred into DMF (5.0 mL) at room temperature for 30 minutes. The reaction mixture was diluted with ethyl acetate (60.0 mL) and washed with water (2X 100 mL). The organic phase was dried (Na_2SO_4), filtered and concentrated to dryness. The crude product was purified using Agilent HPLC (Basic system) to yield pure title compound (79.0 mg, 73%). MS (ESI) mass calcd. for $C_{21}H_{23}N_5OS$, 393.51; m/z found $[M+H]^+$. ^1H NMR ($CDCl_3$): 7.42-7.39 (m, 1H), 7.04-7.01 (m, 1 H), 6.85 (t, *J* = 2.1, 2H), 6.29 (s, 1 H), 6.14 (t, *J* = 2.1, 2H), 3.88-3.73 (m, 2H), 3.66-3.52 (m, 2H), 3.50-3.41 (m, 1 H), 3.32-3.20 (m, 1H), 3.00-2.86 (m, 2H), 2.80-2.66 (m, 1 H), 2.60-2.47 (m, 1 H), 2.34-2.25 (m, 6H).

Example 9: 6-[5-{[5-Fluoro-2-(2H-1,2,3-triazol-2-yl)phenyl]carbonyl}hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl]-N,N-dimethyl-2-(trifluoromethyl)pyrimidin-4-amine.

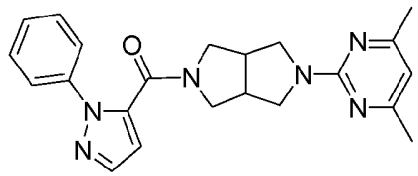
[0376]



[0377] A mixture of [6-(hexahydro-pyrrolo[3,4-c]pyrrol-2-yl)-2-trifluoromethyl-pyrimidin-4-yl]-dimethyl-amine (50 mg, 0.17 mmol), 5-fluoro-2-[1,2,3]triazol-2-yl-benzoic acid (37.8 mg, 0.18 mmol), HATU (94.6 mg, 0.25 mmol) and DIPEA (0.09 mL, 0.50 mmol) in DMF (4.0 mL) was stirred at room temperature for 30 minutes. The reaction mixture was diluted with ethyl acetate (60.0 mL) and washed with water (2X 100 mL). The organic phase was dried (Na_2SO_4), filtered and concentrated to dryness. The crude product was purified using Agilent HPLC (Basic system) to yield pure title compound (42.0 mg, 51.6 %). MS (ESI) mass calcd. for $C_{22}H_{22}F_4N_8O$, 490.46; m/z found $[M+H]^+$. ^1H NMR ($CDCl_3$): 7.96 (dd, *J* = 9.0, 4.8, 1 H), 7.80-7.66 (m, 2H), 7.25-7.18 (m, 1 H), 7.16-7.10 (m, 1 H), 5.22-5.11 (m, 1 H), 3.90-3.30 (m, 8H), 3.13-3.06 (m, 7H), 3.00 (s, 6H).

Example 10: 2-(4,6-Dimethylpyrimidin-2-yl)-5-[(1-phenyl-1H-pyrazol-5-yl)carbonyl]octahydropyrrolo[3,4-c]pyrrole.

[0378]

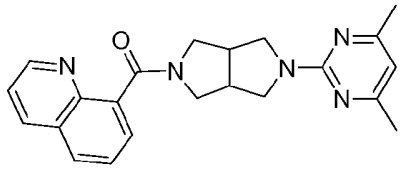


[0379] A mixture of 2-(4,6-dimethyl-pyrimidin-2-yl)-octahydro-pyrrolo[3,4-c]pyrrole (60.0 mg, 0.28 mmol), 2-phenyl-2H-pyrazole-3-carboxylic acid (56.9 mg, 0.30 mmol), HATU (156.8 mg, 0.41 mmol) and DIPEA (106.6 mg, 0.83 mmol) was stirred into DMF (5.0 mL) at room temperature for 30 minutes. The reaction mixture was diluted with ethyl acetate (60.0 mL) and washed with water (2X100 mL). The organic phase was dried (Na_2SO_4), filtered and concentrated to dryness. The crude product was purified using Agilent HPLC (Basic system) to yield pure title compound (79.0 mg, 74 %). MS (ESI) mass calcd. for $C_{22}H_{24}N_6O$, 388.47; m/z found 389.2 $[M+H]^+$. ^1H NMR ($CDCl_3$): 7.67 (d, *J* = 1.7, 1 H), 7.50 (d, *J* = 7.4, 2H), 7.37 (t, *J* = 7.8, 2H), 7.29-7.23 (m, 1 H), 6.56 (d, *J* = 1.7, 1 H), 6.30 (s, 1 H), 3.86-3.71 (m, 2H),

3.70-3.51 (m, 2H), 3.43-3.22 (m, 3H), 3.05-2.77 (m, 3H), 2.29 (s, 6H).

Example 11: 8-{[5-(4,6-Dimethylpyrimidin-2-yl)hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl]carbonyl}-quinoline.

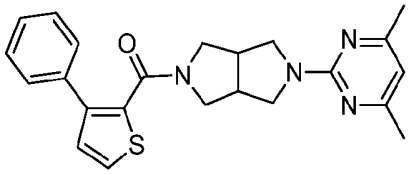
[0380]



[0381] A mixture of 2-(4,6-dimethyl-pyrimidin-2-yl)-octahydro-pyrrolo[3,4-c]pyrrole (60.0 mg, 0.28 mmol), quinoline-8-carboxylic acid (52.4 mg, 0.30 mmol), HATU (156.8 mg, 0.41 mmol) and DIPEA (106.6 mg, 0.83 mmol) was stirred into DMF (5.0 mL) at room temperature for 30 minutes. The reaction mixture was diluted with ethyl acetate (60.0 mL) and washed with water (2X100 mL). The organic phase was dried (Na_2SO_4), filtered and concentrated to dryness. The crude product was purified using Agilent HPLC (Basic system) to yield pure title compound (68.0 mg, 66.2 %). MS (ESI) mass calcd. for $C_{22}H_{23}N_5O$, 373.46; m/z found 374.2 $[M+H]^+$ ^1H NMR ($CDCl_3$): 8.95 (s, 1 H), 8.16 (d, *J* = 7.9, 1 H), 7.89-7.79 (m, 1 H), 7.69 (d, *J* = 6.8, 1 H), 7.61-7.49 (m, 1H), 7.41 (s, 1H), 6.26 (d, *J* = 19.1, 1 H), 4.29-4.03 (m, 1 H), 3.96-3.59 (m, 4H), 3.65-3.29 (m, 2H), 3.21-2.84 (m, 3H), 2.37-2.18 (m, 6H).

Example 12: 2-(4,6-Dimethylpyrimidin-2-yl)-5-[(3-phenylthiophen-2-yl)carbonyl]octahydropyrrolo[3,4-c]pyrrole.

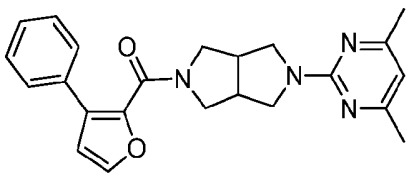
[0382]



[0383] A mixture of 2-(4,6-dimethyl-pyrimidin-2-yl)-octahydro-pyrrolo[3,4-c]pyrrole (60.0 mg, 0.28 mmol), 3-phenyl-thiophene-2-carboxylic acid (61.8 mg, 0.30 mmol), HATU (156.8 mg, 0.41 mmol) and DIPEA (107.0 mg, 0.83 mmol) was stirred into DMF (5.0 mL) at room temperature for 30 minutes. The reaction mixture was diluted with ethyl acetate (60.0 mL) and washed with water (2X100 mL). The organic phase was dried (Na_2SO_4), filtered and concentrated to dryness. The crude product was purified using Agilent HPLC (Basic system) to yield pure title compound (30.0 mg, 27.0 %). MS (ESI) mass calcd. for $C_{23}H_{24}N_4OS$, 404.54; m/z found 405.2 $[M+H]^+$. ^1H NMR ($CDCl_3$): 7.45-7.41 (m, 2H), 7.39-(d, *J* = 5.1, 1 H), 7.34-7.27 (m, 2H), 7.18-7.14 (m, 1 H), 7.13 (d, *J* = 5.0, 1 H), 6.28 (s, 1 H), 3.88-3.66 (m, 2H), 3.61-3.49 (m, 2H), 3.30 (dd, *J* = 11.5, 5.1, 1H), 3.19-3.04 (m, 2H), 2.92-2.78 (m, 1H), 2.75-2.61 (m, 2H), 2.37-2.22 (m, 6H).

Example 13: 2-(4,6-Dimethylpyrimidin-2-yl)-5-[(3-phenylfuran-2-yl)carbonyl]octahydropyrrolo[3,4-c]pyrrole.

[0384]

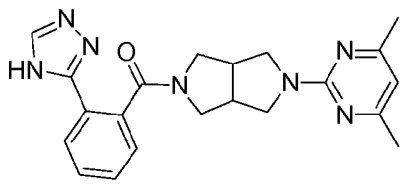


[0385] A mixture of 2-(4,6-dimethyl-pyrimidin-2-yl)-octahydro-pyrrolo[3,4-c]pyrrole (60.0 mg, 0.28 mmol), 3-phenyl-furan-2-carboxylic acid (61.8 mg, 0.30 mmol), HATU (156.8 mg, 0.41 mmol) and DIPEA (107.0 mg, 0.83 mmol) was stirred into DMF (5.0 mL) at room temperature for 30 minutes. The reaction mixture was diluted with ethyl acetate (60.0 mL) and washed with water (2X100 mL). The organic phase was dried (Na_2SO_4), filtered and concentrated to dryness. The crude product was purified using Dionex HPLC to yield pure title compound (30.0 mg, 28.0 %). MS (ESI) mass

calcd. for $C_{23}H_{24}N_4O_2$, 388.47; m/z found 389.2 $[M+H]^+$ ^1H NMR ($CDCl_3$): 7.56-7.50 (m, 2H), 7.46 (d, *J* = 1.8, 1 H), 7.37-7.30 (m, 2H), 7.25-7.19 (m, 1 H), 6.61 (d, J= 1.8, 1 H), 6.29 (s, 1 H), 3.95-3.80 (m, 2H), 3.75-3.60 (m, 3H), 3.51 (dd, *J* = 11.6, 5.0 1 H), 3.42 (dd, *J* = 11.6, 4.1, 1 H), 3.33 (dd, *J* = 11.6, 5.4, 1 H), 3.02-2.81 (m, 2H), 2.35-2.22 (m, 6H).

Example 14: 2-(4,6-Dimethyipyrimidin-2-yl)-5-{[2-(1H-1,2,4-triazol-5-yl)phenyl]carbonyl} octahydro-pyrrolo[3,4-c]pyrrole.

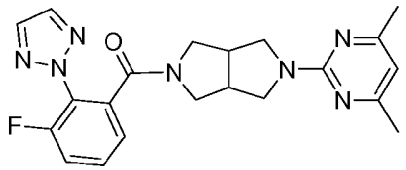
[0386]



[0387] A mixture of 2-(4,6-dimethyl-pyrimidin-2-yl)-octahydro-pyrrolo[3,4-c]pyrrole (60.0 mg, 0.28 mmol), 2-(4H-[1,2,4]triazol-3-yl)-benzoic acid (57.2 mg, 0.30 mmol), HATU (156.8 mg, 0.41 mmol) and DIPEA (107.0 mg, 0.83 mmol) was stirred into DMF (5.0 mL) at room temperature for 30 minutes. The reaction mixture was diluted with ethyl acetate (60.0 mL) and washed with water (2X100 mL). The organic phase was dried (Na_2SO_4), filtered and concentrated to dryness. The crude product was purified using Agilent HPLC (basic system) to yield pure title compound (60.0 mg, 56%). MS (ESI) mass calcd. for $C_{21}H_{23}N_7O$, 389.46; m/z found 390.2 $[M+H]^+$. ^1H NMR ($CDCl_3$): 8.12 (d, *J* = 7.5, 1 H), 8.05 (s, 1 H), 7.53-7.39 (m, 2H), 7.37-7.31 (m, 1 H), 6.28 (s, 1 H), 3.95-3.77 (m, 2H), 3.76-3.55 (m, 3H), 3.48-3.33 (m, 2H), 3.19-3.03 (m, 1 H), 3.02-2.95 (m, 1 H), 2.91-2.82 (m, 1 H), 2.36-2.19 (m, 6H).

Example 15: 2-(4,6-Dimethylpyrimidin-2-yl)-5-{[3-fluoro-2-(2H-1,2,3-triazol-2-yl)phenyl]carbonyl}octahydropyrrolo[3,4-c]pyrrole.

[0388]

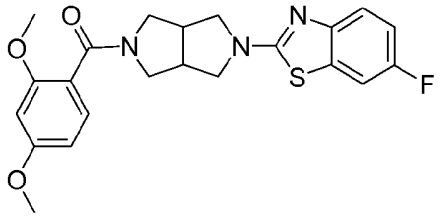


[0389] A mixture of 2-(4,6-dimethyl-pyrimidin-2-yl)-octahydro-pyrrolo[3,4-c]pyrrole (437.3 mg, 2.0 mmol), 3-fluoro-2-[1,2,3]triazol-2-yl-benzoic acid (415 mg, 2.0 mmol), HATU (1.14 g, 3.0 mmol) and DIPEA (777 mg, 6.0 mmol) was stirred into DMF (20 mL) at room temperature for 30 minutes. The reaction mixture was diluted with ethyl acetate (250 mL) and washed with water (2 X 500 mL). The organic phase was dried (Na_2SO_4), filtered and concentrated to dryness. The crude product was purified using Agilent HPLC (basic system) to yield pure title compound (458.0 mg, 56%). MS (ESI) mass calcd. for $C_{21}H_{22}FN_7O$, 407.45; m/z found 408.2 $[M+H]^+$. ^1H NMR ($CDCl_3$): 7.79 (s, 2H), 7.52-7.45 (m, 1 H), 7.36-7.28 (m, 1 H), 7.25-7.22 (m, 1 H), 6.30 (s, 1 H), 3.82 (dd, *J* = 11.6, 7.5, 1 H), 3.75-3.66 (m, 2H), 3.58-3.41 (m, 4H), 3.13 (dd, *J* = 10.9, 5.2, 1 H), 3.02-2.87 (m, 2H), 2.36-2.24 (m, 6H).

[0390] Examples 16-106, 108-214 were prepared in a manner analogous to Example 15.

Example 16: 2-{5-[(2,4-Dimethoxyphenyl)carbonyl]hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl}-6-fluoro-1,3-benzothiazole.

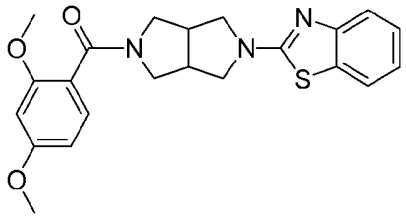
[0391]



[0392] The title compound was prepared in a manner analogous to Example 15, utilizing Intermediate 38 and 2-chloro-6-fluoro-benzothiazole. MS (ESI) mass calcd. for $C_{22}H_{22}FN_3O_3S$, 427.5; m/z found, 428.2 $[M+H]^+$.

Example 17: 2-{5-[(2,4-Dimethoxyphenyl)carbonyl]hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl}-1,3-benzothiazole.

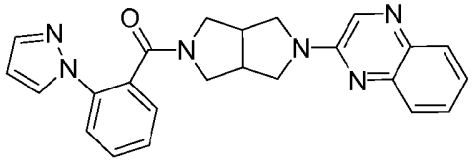
[0393]



[0394] The title compound was prepared in a manner analogous to Example 15 utilizing Intermediate 38 and 2-chloro-benzothiazole. MS (ESI) mass calcd. for $C_{22}H_{23}N_3O_3S$, 409.51; m/z found, 410.2 $[M+H]^+$.

Example 18: 2-[5-{[2-(1H-Pyrazol-1-yl)phenyl]carbonyl}hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl]quinoxaline.

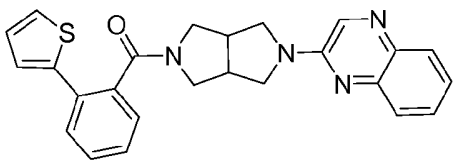
[0395]



[0396] The title compound was prepared in a manner analogous to Example 15 utilizing Intermediate 35 and 2-pyrazol-1-yl-benzoic acid. MS (ESI) mass calcd. for $C_{24}H_{22}N_6O$, 410.48; m/z found, 411.2 $[M+H]^+$.

Example 19: 2-{5-[(2-Thiophen-2-ylphenyl)carbonyl]hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl}quinoxaline.

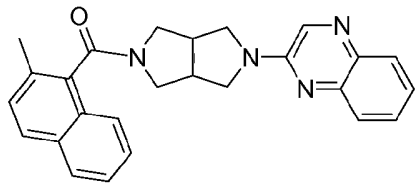
[0397]



[0398] The title compound was prepared in a manner analogous to Example 15 utilizing Intermediate 35 and 2-thiophen-2-yl-benzoic acid. MS (ESI) mass calcd. for $C_{25}H_{22}N_4OS$, 426.54; m/z found, 427.2 $[M+H]^+$.

Example 20: 2-{5-[(2-Methylnaphthalen-1-yl)carbonyl]hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl}quinoxaline.

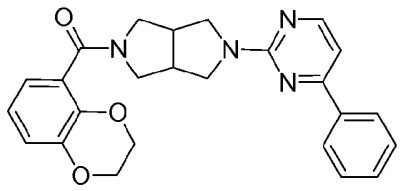
[0399]



[0400] The title compound was prepared in a manner analogous to Example 15 utilizing Intermediate 35 and 2-methyl-naphthalene-1-carboxylic acid. MS (ESI) mass calcd. for $C_{25}H_{22}N_4OS$, 426.54; m/z found, 427.2 $[M+H]^+$.

Example 21: 2-(2,3-Dihydro-1,4-benzodioxin-5-ylcarbonyl)-5-(4-phenylpyrimidin-2-yl)octahydropyrrolo[3,4-c]pyrrole.

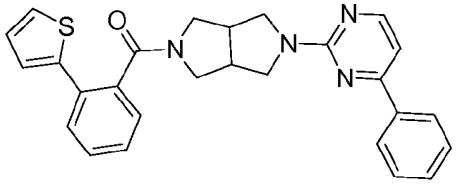
[0401]



[0402] The title compound was prepared in a manner analogous to Example 15 utilizing Intermediate 26 and 2,3-dihydro-benzo[1,4]dioxine-5-carboxylic acid. MS (ESI) mass calcd. for $C_{25}H_{24}N_4O_3$, 428.50; m/z found, 429.2 $[M+H]^+$.

Example 22: 2-(4-Phenylpyrimidin-2-yl)-5-[(2-thiophen-2-ylphenyl)carbonyl]octahydro-pyrrolo[3,4-c]pyrrole.

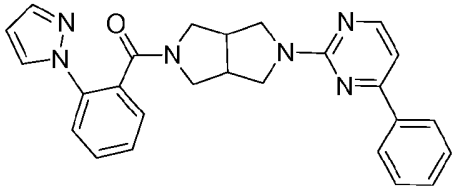
[0403]



[0404] The title compound was prepared in a manner analogous to Example 15 utilizing Intermediate 26 and 2-thiophen-2-yl-benzoic acid. MS (ESI) mass calcd. for $C_{27}H_{24}N_4OS$, 452.58; m/z found, 453.2 $[M+H]^+$.

Example 23: 2-(4-Phenylpyrimidin-2-yl)-5-{[2-(1H-pyrazol-1-yl)phenyl]carbonyl}octahydro-pyrrolo[3,4-c]pyrrole.

[0405]

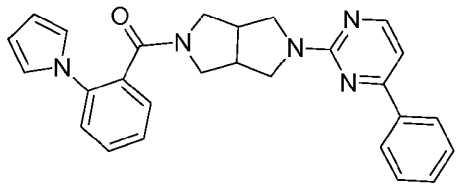


[0406] The title compound was prepared in a manner analogous to Example 15 utilizing Intermediate 26 and 2-pyrazol-

1-yl-benzoic acid. MS (ESI) mass calcd. for $C_{26}H_{24}N_6$, 436.52; m/z found, 437.2 $[M+H]^+$.

Example 24: 2-(4-Phenylpyrimidin-2-yl)-5-{[2-(1H-pyrrol-1-yl)phenyl]carbonyl}octahydro-pyrrolo[3,4-c]pyrrole.

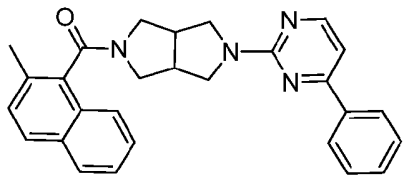
[0407]



[0408] The title compound was prepared in a manner analogous to Example 15 utilizing Intermediate 26 and 2-pyrrol-1-yl-benzoic acid. MS (ESI) mass calcd. for $C_{27}H_{25}N_5O$, 435.53; m/z found, 436.3 $[M+H]^+$.

Example 25: 2-[(2-Methylnaphthalen-1-yl)carbonyl]-5-(4-phenylpyrimidin-2-yl)octahydropyrrolo[3,4-c]pyrrole.

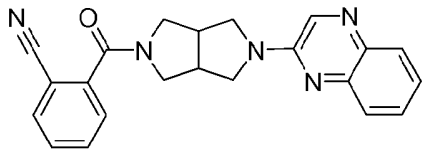
[0409]



[0410] The title compound was prepared in a manner analogous to Example 15 utilizing Intermediate 26 and 2-methyl-naphthalene-1-carboxylic acid. MS (ESI) mass calcd. for $C_{28}H_{26}N_4O$, 434.51; m/z found, 435.3 $[M+H]^+$.

Example 26: 2-(5-Quinoxalin-2-yl-hexahydro-pyrrolo[3,4-c]pyrrole-2-carbonyl)-benzonitrile.

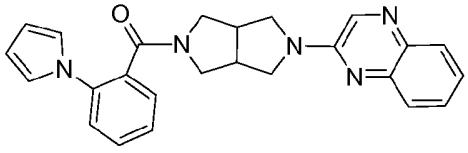
[0411]



[0412] The title compound was prepared in a manner analogous to Example 15 utilizing Intermediate 35 and 2-cyano-benzoic acid. MS (ESI): mass calculated for $C_{22}H_{19}N_5O$, 369.43; m/z found 370.3 $[M+H]^+$.

Example 27: 2-[5-{[2-(1H-Pyrrol-1-yl)phenyl]carbonyl}hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl]quinoxaline.

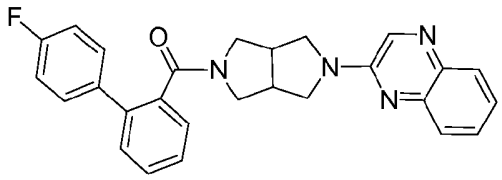
[0413]



[0414] The title compound was prepared in a manner analogous to Example 15 utilizing Intermediate 35 and 2-pyrrol-1-yl-benzoic acid. MS (ESI) mass calcd. for $C_{25}H_{23}N_5O$, 409.49; m/z found, 410.2 $[M+H]^+$.

Example 28: 2-{5-[(4'-Fluorobiphenyl-2-yl)carbonyl]hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl}quinoxaline.

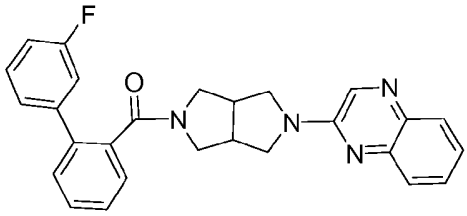
[0415]



[0416] The title compound was prepared in a manner analogous to Example 15 utilizing Intermediate 35 and 4'-fluorobiphenyl-2-carboxylic acid. MS (ESI) mass calcd. for $C_{27}H_{23}FN_4O$, 438.51; m/z found, 439.2 $[M+H]^+$.

Example 29: 2-{5-[(3'-Fluorobiphenyl-2-yl)carbonyl]hexahydropyrrolo[3,4-c]pyrrol-2(1 H)-yl}quinoxaline.

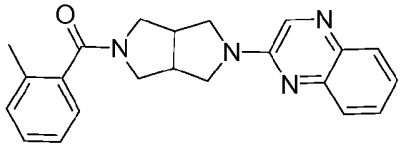
[0417]



[0418] The title compound was prepared in a manner analogous to Example 15 utilizing Intermediate 35 and 3'-fluorobiphenyl-2-carboxylic acid. MS (ESI) mass calcd. for $C_{27}H_{23}FN_4O$, 438.51; m/z found, 439.2 $[M+H]^+$.

Example 30: 2-{5-[(2-Methylphenyl)carbonyl]hexahydropyrrolo[3,4-c]pyrrol-2(1 H)-yl}quinoxaline.

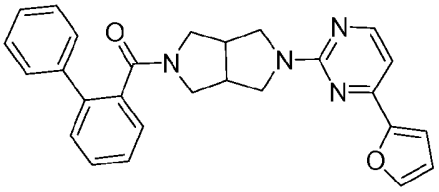
[0419]



[0420] The title compound was prepared in a manner analogous to Example 15 utilizing Intermediate 35 and 2-methylbenzoic acid. MS (ESI) mass calcd. for $C_{22}H_{22}N_4O$, 358.45; m/z found, 359.2 $[M+H]^+$.

Example 31: 2-(Biphenyl-2-ylcarbonyl)-5-(4-furan-2-ylpyrimidin-2-yl)octahydropyrrolo[3,4-c]pyrrole.

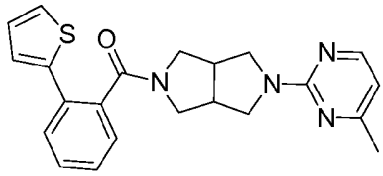
[0421]



[0422] The title compound was prepared in a manner analogous to Example 15 utilizing Intermediate 17 and 2-chloro-4-furan-2-yl-pyrimidine. MS (ESI) mass calcd. for $C_{27}H_{24}N_4O_2$, 436.52; m/z found, 437.2 $[M+H]^+$.

Example 32: 2-(4-Methylpyrimidin-2-yl)-5-[(2-thiophen-2-ylphenyl)carbonyl]octahydro-pyrrolo[3,4-c]pyrrole.

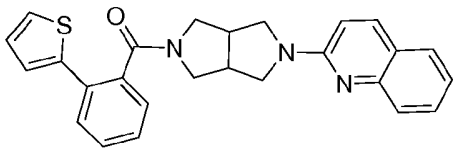
[0423]



[0424] The title compound was prepared in a manner analogous to Example 15 utilizing Intermediate 37 and 2-chloro-4-methyl-pyrimidine. MS (ESI) mass calcd. for $C_{22}H_{22}N_4OS$, 390.51; m/z found, 391.2 $[M+H]^+$.

Example 33: 2-{5-[(2-Thiophen-2-ylphenyl)carbonyl]hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl}quinoline.

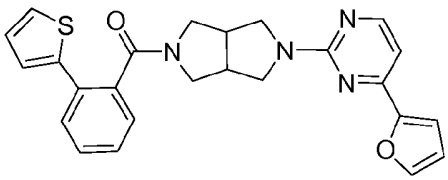
[0425]



[0426] The title compound was prepared in a manner analogous to Example 15 utilizing Intermediate 37 and 2-chloro-quinoline. MS (ESI) mass calcd. for $C_{26}H_{23}N_3OS$, 425.56; m/z found, 426.2 $[M+H]^+$.

Example 34: 2-(4-Furan-2-ylpyrimidin-2-yl)-5-[(2-thiophen-2-ylphenyl)carbonyl]octahydro-pyrrolo[3,4-c]pyrrole.

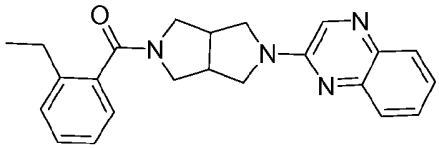
[0427]



[0428] The title compound was prepared in a manner analogous to Example 15 utilizing Intermediate 37 and 2-chloro-4-furan-2-yl-pyrimidine. MS (ESI) mass calcd. for $C_{25}H_{22}N_4O_2S$, 442.50; m/z found, 443.2 $[M+H]^+$.

Example 35: 2-{5-[(2-Ethylphenyl)carbonyl]hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl}quinoxaline.

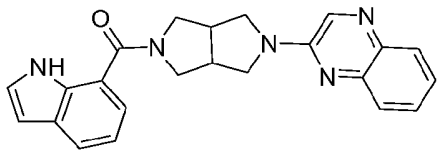
[0429]



[0430] The title compound was prepared in a manner analogous to Example 15 utilizing Intermediate 35 and 2-ethylbenzoic acid. MS (ESI) mass calcd. for $C_{23}H_{24}N_4O$, 372.46; m/z found, 373.2 $[M+H]^+$.

Example 36: 2-[5-(1H-Indol-7-ylcarbonyl)hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl]quinoxaline.

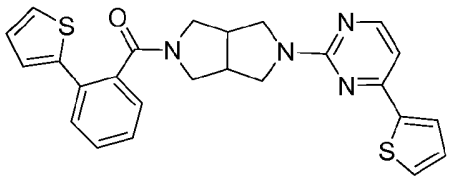
[0431]



[0432] The title compound was prepared in a manner analogous to Example 15 utilizing Intermediate 35 and 1H-indole-7-carboxylic acid. MS (ESI) mass calcd. for $C_{23}H_{21}N_5O$, 383.45; m/z found, 384.2 $[M+H]^+$.

Example 37: 2-[(2-Thiophen-2-ylphenyl)carbonyl]-5-(4-thiophen-2-ylpyrimidin-2-yl)octahydro-pyrrolo[3,4-c]pyrrole.

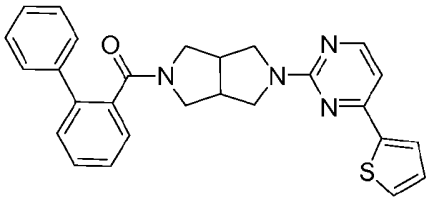
[0433]



[0434] The title compound was prepared in a manner analogous to Example 15 utilizing Intermediate 37 and 2-chloro-4-thiophen-2-yl-pyrimidine. MS (ESI) mass calcd. for $C_{25}H_{22}N_4OS_2$, 458.60; m/z found, 459.1 $[M+H]^+$.

Example 38: 2-(Biphenyl-2-ylcarbonyl)-5-(4-thiophen-2-ylpyrimidin-2-yl)octahydropyrrolo[3,4-c]pyrrole.

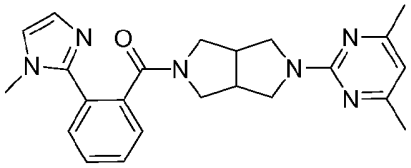
[0435]



[0436] The title compound was prepared in a manner analogous to Example 15 utilizing Intermediate 17 and 2-chloro-4-thiophen-2-yl-pyrimidine. MS (ESI) mass calcd. for $C_{27}H_{24}N_4OS$, 452.57; m/z found, 453.1 $[M+H]^+$.

Example 39: [5-(4,6-Dimethyl-pyrimidin-2-yl)-hexahydro-pyrrolo[3,4-c]pyrrol-2-yl]-[2-(1-methyl-1H-imidazol-2-yl)-phenyl]-methanone.

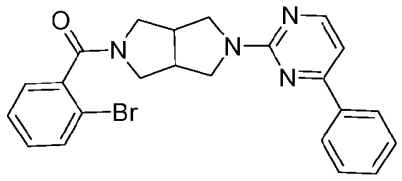
[0437]



[0438] The title compound was prepared in a manner analogous to Example 15 utilizing Intermediate 23 and 2-(1-methyl-1H-imidazol-2-yl)-benzoic acid. MS (ESI) mass calcd. for $C_{23}H_{26}N_6O$, 402.50; m/z found, 403.2 $[M+H]^+$.

Example 40: 2-[(2-Bromophenyl)carbonyl]-5-(4-phenylpyrimidin-2-yl)octahydropyrrolo[3,4-c]pyrrole.

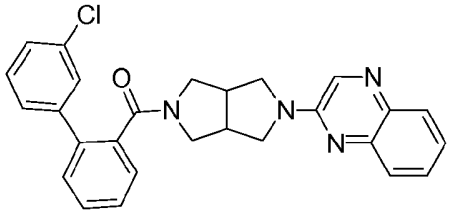
[0439]



[0440] The title compound was prepared in a manner analogous to Example 15 utilizing Intermediate 26 and 2-bromobenzoic acid. MS (ESI) mass calcd. for $C_{23}H_{21}BrN_4O$, 449.34; m/z found, 449.1, 451.1 $[M+H]^+$.

Example 41: 2-{5-[(3'-Chlorobiphenyl-2-yl)carbonyl]hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl}quinoxaline.

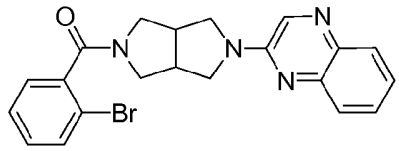
[0441]



[0442] The title compound was prepared in a manner analogous to Example 15 utilizing Intermediate 35 and 3'-chloro-biphenyl-2-carboxylic acid. MS (ESI) mass calcd. for $C_{27}H_{23}ClN_4O$, 454.95; m/z found, 455.1 $[M+H]^+$.

Example 42: 2-{5-[(2-Bromophenyl)carbonyl]hexahydropyrrolo[3,4-c]pyrrol-2(1 H)-yl}quinoxaline.

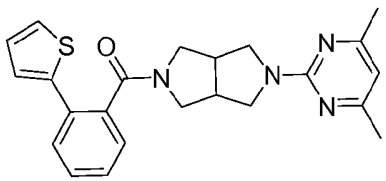
[0443]



[0444] The title compound was prepared in a manner analogous to Example 15 utilizing Intermediate 35 and 2-bromobenzoic acid. MS (ESI) mass calcd. for $C_{21}H_{19}BrN_4O$, 423.31; m/z found, 423.0, 425.0 $[M+H]^+$.

Example 43: 2-(4,6-Dimethylpyrimidin-2-yl)-5-[(2-thiophen-2-ylphenyl)carbonyl]octahydro-pyrrolo[3,4-c]pyrrole.

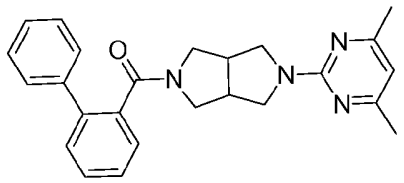
[0445]



[0446] The title compound was prepared in a manner analogous to Example 15 utilizing Intermediate 37 and 2-chloro-4,6-dimethyl-pyrimidine. MS (ESI) mass calcd. for $C_{23}H_{24}N_4OS$, 404.53; m/z found, 405.1 $[M+H]^+$.

Example 44: 2-(Biphenyl-2-ylcarbonyl)-5-(4,6-dimethylpyrimidin-2-yl)octahydropyrrolo[3,4-c]pyrrole.

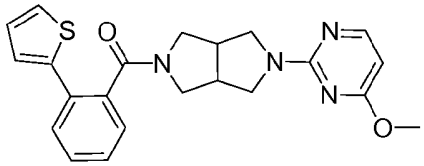
[0447]



[0448] The title compound was prepared in a manner analogous to Example 15 utilizing Intermediate 17 and 2-chloro-4,6-dimethyl-pyrimidine. MS (ESI) mass calcd. for $C_{25}H_{26}N_4O$, 398.5; m/z found, 399.2 $[M+H]^+$.

Example 45: 2-(4-Methoxypyrimidin-2-yl)-5-[(2-thiophen-2-ylphenyl)carbonyl]octahydro-pyrrolo[3,4-c]pyrrole.

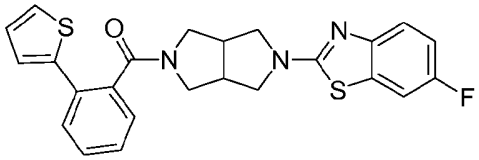
[0449]



[0450] The title compound was prepared in a manner analogous to Example 15 utilizing Intermediate 37 and 2-chloro-4-methoxy-pyrimidine. MS (ESI) mass calcd. for $C_{22}H_{22}N_4O_2S$, 406.50; m/z found, 407.0 $[M+H]^+$.

Example 46: 6-Fluoro-2-{5-[(2-thiophen-2-ylphenyl)carbonyl]hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl}-1,3-benzothiazole.

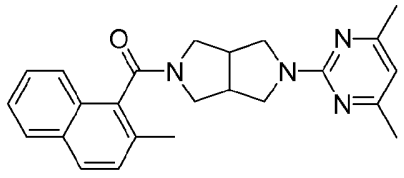
[0451]



[0452] The title compound was prepared in a manner analogous to Example 15 utilizing Intermediate 37 and 2-chloro-6-fluoro-benzothiazole. MS (ESI) mass calcd. for $C_{24}H_{20}FN_3OS_2$, 449.57; m/z found, 450.0 $[M+H]^+$.

Example 47: 2-(4,6-Dimethylpyrimidin-2-yl)-5-[(2-methylnaphthalen-1-yl)carbonyl]octahydro-pyrrolo[3,4-c]pyrrole.

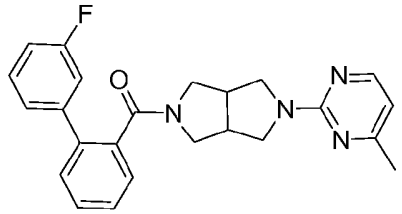
[0453]



[0454] The title compound was prepared in a manner analogous to for Example 15 utilizing Intermediate 23 and 2-methyl-naphthalene-1-carboxylic acid. MS (ESI) mass calcd. for $C_{24}H_{26}N_4O$, 386.5; m/z found, 387.3 $[M+H]^+$.

Example 48: 2-[(3'-Fluorobiphenyl-2-yl)carbonyl]-5-(4-methylpyrimidin-2-yl)octahydro-pyrrolo[3,4-c]pyrrole.

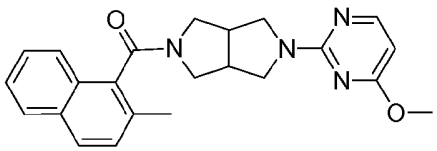
[0455]



[0456] The title compound was prepared in a manner analogous to Example 15 utilizing Intermediate 27 and 3'-fluoro-biphenyl-2-carboxylic acid. MS (ESI) mass calcd. for $C_{24}H_{23}FN_4O$, 402.46; m/z found, 403.1 $[M+H]^+$.

Example 49: 2-(4-Methoxypyrimidin-2-yl)-5-[(2-methylnaphthalen-1-yl)carbonyl]octahydro-pyrrolo[3,4-c]pyrrole.

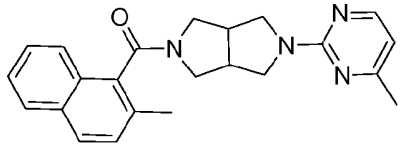
[0457]



[0458] The title compound was prepared in a manner analogous to Example 15 utilizing Intermediate 32 and 2-methyl-naphthalene-1-carboxylic acid. MS (ESI) mass calcd. for $C_{23}H_{24}N_4O_2$, 388.46; m/z found, 389.1 $[M+H]^+$.

Example 50: 2-[(2-Methylnaphthalen-1-yl)carbonyl]-5-(4-methylpyrimidin-2-yl)octahydro-pyrrolo[3,4-c]pyrrole.

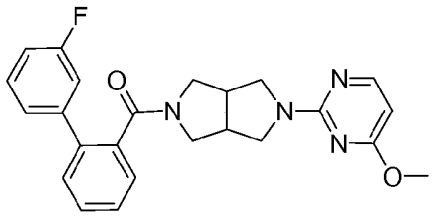
[0459]



[0460] The title compound was prepared in a manner analogous to Example 15 utilizing and 2-methyl-naphthalene-1-carboxylic acid. MS (ESI) mass calcd. for $C_{23}H_{24}N_4O$, 372.46; m/z found, 373.1 $[M+H]^+$.

Example 51: 2-[(3'-Fluorobiphenyl-2-yl)carbonyl]-5-(4-methoxypyrimidin-2-yl)octahydro-pyrrolo[3,4-c]pyrrole.

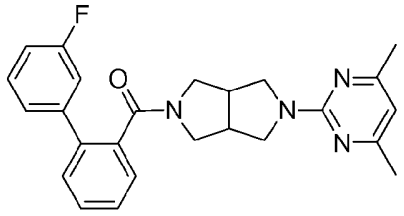
[0461]



[0462] The title compound was prepared in a manner analogous to Example 15 utilizing Intermediate 32 and 3'-fluoro-biphenyl-2-carboxylic acid. MS (ESI) mass calcd. for $C_{24}H_{23}FN_4O_2$, 418.46; m/z found, 419.1 $[M+H]^+$.

Example 52: 2-(4,6-Dimethylpyrimidin-2-yl)-5-[(3'-fluorobiphenyl-2-yl)carbonyl]octahydro-pyrrolo[3,4-c]pyrrole.

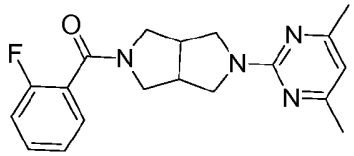
[0463]



[0464] The title compound was prepared in a manner analogous to Example 15 utilizing Intermediate 23 and 3'-fluoro-biphenyl-2-carboxylic acid. MS (ESI) mass calcd. for $C_{25}H_{25}FN_4O$, 416.49; m/z found, 417.1 $[M+H]^+$.

Example 53: [5-(4,6-Dimethyl-pyrimidin-2-yl)-hexahydro-pyrrolo[3,4-c]pyrrol-2-yl]-(2-fluoro-phenyl)-methanone.

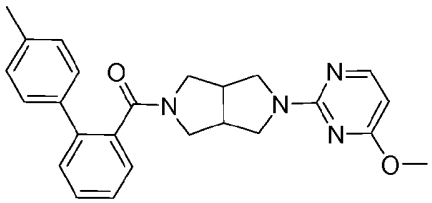
[0465]



[0466] The title compound was prepared in a manner analogous to Example 15 utilizing Intermediate 23 and 2-fluorobenzoic acid. MS (ESI) mass calcd. for $C_{19}H_{21}FN_4O$, 340.4; m/z found, 341.2 $[M+H]^+$.

Example 54: 2-(4-Methoxypyrimidin-2-yl)-5-[(4'-methylbiphenyl-2-yl)carbonyl]octahydro-pyrrolo[3,4-c]pyrrole.

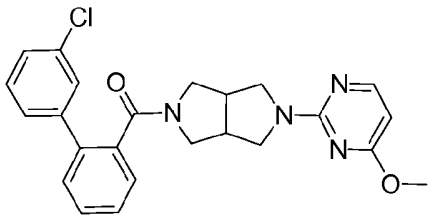
[0467]



[0468] The title compound was prepared in a manner analogous to Example 15 utilizing Intermediate 32 and 4'-methyl-biphenyl-2-carboxylic acid. MS (ESI) mass calcd. for $C_{25}H_{26}N_4O_2$, 414.50; m/z found, 415.1 $[M+H]^+$. ^1H NMR ($CDCl_3$): 8.06 (d, *J* = 5.7 Hz, 1 H), 7.54 - 7.34 (m, 6H), 7.17 (s, 2H), 6.01 (d, *J* = 5.7 Hz, 1 H), 3.90 (s, 3H), 3.82-3.66 (m, 2H), 3.65-3.35 (m, 2H), 3.25-2.55 (m, 6H), 2.33 (s, 3H).

Example 55: 2-[(3'-Chlorobiphenyl-2-yl)carbonyl]-5-(4-methoxypyrimidin-2-yl)octahydro-pyrrolo[3,4-c]pyrrole.

[0469]

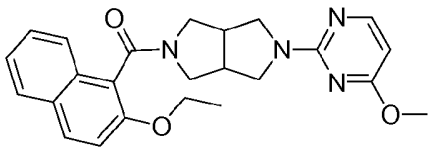


[0470] The title compound was prepared in a manner analogous to Example 15 utilizing Intermediate 32 and 3'-chloro-biphenyl-2-carboxylic acid. MS (ESI) mass calcd. for $C_{24}H_{23}ClN_4O_2$, 434.92; m/z found, 435.1 $[M+H]^+$. ^1H NMR ($CDCl_3$):

8.06 (d, *J* = 5.6 Hz, 1 H), 7.55 - 7.33 (m, 6H), 7.32 - 7.14 (m, 2H), 6.03 (d, *J* = 5.7 Hz, 1 H), 3.92 (s, 3H), 3.81 - 3.64 (m, 2H), 3.61-3.45 (m 2H), 3.14 (br s, 3H), 2.91-2.55 (m, 3H).

Example 56: 2-[(2-Ethoxynaphthalen-1-yl)carbonyl]-5-(4-methoxypyrimidin-2-yl)octahydropyrrolo[3,4-c]pyrrole.

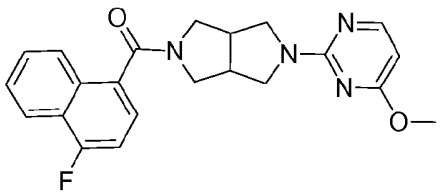
[0471]



[0472] The title compound was prepared according to the procedure used for Example 15 utilizing Intermediate 32 and 2-ethoxy-naphthalene-1-carboxylic acid. MS (ESI) mass calcd. for $C_{24}H_{26}N_4O_3$, 418.49; m/z found, 419.3 $[M+H]^+$. ^1H NMR ($CDCl_3$): rotamers observed, 8.07 (t, *J* = 6.3 Hz, 1 H), 7.89 - 7.76 (m, 2H), 7.74 (d, *J* = 8.4 Hz, 0.6H), 7.66 (d, *J* = 8.4 Hz, 0.4H), 7.50 (t, *J* = 7.6 Hz, 0.6H), 7.46 - 7.32 (m, 1.5H), 7.31 - 7.22 (m, 1 H), 6.05-6.00 (m, 1 H), 4.32 - 3.81 (m, 7.7H), 3.80-3.52 (m, 3.0H), 3.43 - 3.31 (m, 1 H), 3.27 (dd, *J* = 11.1, 5.9 Hz, 0.6H), 3.19-3.07 (m, 1 H), 3.05-2.92 (m 1.5H), 1.46 (t, *J* = 7.0 Hz, 1.3H), 1.36 (t, *J* = 6.9Hz, 1.8H).

Example 57: 2-[(4-Fluoronaphthalen-1-yl)carbonyl]-5-(4-methoxypyrimidin-2-yl)octahydro-pyrrolo[3,4-c]pyrrole.

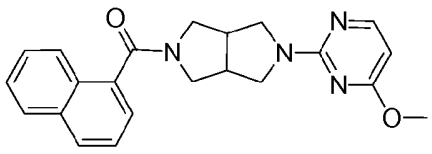
[0473]



[0474] The title compound was prepared in a manner analogous to Example 15 utilizing Intermediate 32 and 4-fluoro-naphthalene-1-carboxylic acid. MS (ESI) mass calcd. for $C_{22}H_{21}FN_4O_2$, 392.43; m/z found, 393.2 $[M+H]^+$. ^1H NMR ($CDCl_3$): 8.22 - 8.13 (m, 1 H), 8.08 (d, *J* = 5.7 Hz, 1 H), 7.89 (d, *J* = 7.7 Hz, 1 H), 7.66 - 7.53 (m, 2H), 7.43 (dd, *J* = 7.8, 5.3 Hz, 1 H), 7.17 (dd, *J* = 10.1, 7.9 Hz, 1 H), 6.04 (d, *J* = 5.7 Hz, 1 H), 4.11 (dd, *J* = 12.8, 7.8 Hz, 1 H), 4.00 - 3.80 (m, 5H), 3.80-3.63 (m, 2H), 3.57-3.39 m, 2H), 3.22 - 3.08 (m, 2H), 3.04-2.92 (m, 1 H).

Example 58: 2-(4-Methoxypyrimidin-2-yl)-5-(naphthalen-1-ylcarbonyl)octahydropyrrolo[3,4-c]pyrrole.

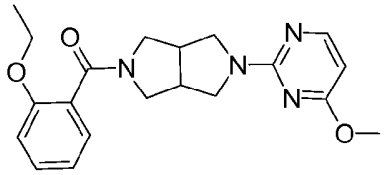
[0475]



[0476] The title compound was prepared in a manner analogous to Example 15 utilizing Intermediate 32 and naphthalene-1-carboxylic acid. MS (ESI) mass calcd. for $C_{22}H_{22}N_4O_2$, 374.44; m/z found, 375.2 $[M+H]^+$. ^1H NMR ($CDCl_3$): 8.08 (d, *J* = 5.7 Hz, 1 H), 7.95 - 7.81 (m, 3H), 7.59-7.46 (m, 4H), 6.04 (d, *J* = 5.7 Hz, 1 H), 4.13 (dd, *J* = 12.8, 7.9 Hz, 1 H), 4.00 - 3.80 (m, 5H), 3.80-3.65 (m, 2H), 3.55-3.40 (m, 2H), 3.22 - 3.09 (m, 2H), 3.05-2.91 (m, 1 H).

Example 59: 2-[(2-Ethoxyphenyl)carbonyl]-5-(4-methoxypyrimidin-2-yl)octahydropyrrolo[3,4-c]pyrrole.

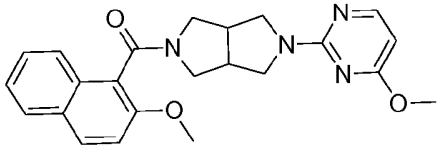
[0477]



[0478] The title compound was prepared according to the procedure used for Example 15 utilizing 2-(4-methoxypyrimidin-2-yl)-octahydro-pyrrolo[3,4-c]pyrrole and 2-ethoxybenzoic acid. MS (ESI) mass calcd. for $C_{20}H_{24}N_4O_3$, 368.44; m/z found, 369.3 $[M+H]^+$. ^1H NMR ($CDCl_3$): 8.07 (d, *J* = 5.7 Hz, 1 H), 7.37 - 7.28 (m, 2H), 6.99 (t, *J* = 7.4 Hz, 1 H), 6.91 (d, *J* = 8.3 Hz, 1 H), 6.02 (d, *J* = 5.7 Hz, 1 H), 4.07 (q, *J* = 7.0 Hz, 2H), 4.01 - 3.85 (m, 5H), 3.84-3.70 (m, 2H), 3.65 - 3.45 (m, 3H), 3.34-3.22 (m, 1 H), 3.16 - 2.92 (m, 2H), 1.35 (t, *J* = 6.8 Hz, 3H).

Example 60: 2-[(2-Methoxynaphthalen-1-yl)carbonyl]-5-(4-methoxypyrimidin-2-yl)octahydropyrrolo[3,4-c]pyrrole.

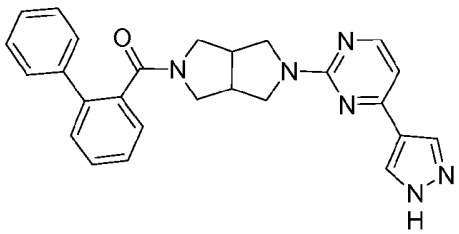
[0479]



[0480] The title compound was prepared in a manner analogous to Example 15 utilizing Intermediate 32 and 2-methoxynaphthalene-1-carboxylic acid. MS (ESI) mass calcd. for $C_{23}H_{24}N_4O_3$, 404.46; m/z found, 405.2 $[M+H]^+$. ^1H NMR (rotamers observed) 8.12 - 8.00 (m, 1 H), 7.88 (d, *J* = 9.1 Hz, 1 H), 7.80 (t, *J* = 7.8 Hz, 1 H), 7.70 (d, *J* = 8.4 Hz, 0.6H), 7.63 (d, *J* = 8.4 Hz, 0.4H), 7.49 (t, *J* = 7.6 Hz, 0.6H), 7.45 - 7.23 (m, 3.4H), 6.06 - 5.97 (m, 1 H), 4.16-4.02 (m, 1 H), 3.99-3.79 (m, 7H), 3.80-3.62 (m, 2H), 3.61 - 3.47 (m, 1 H), 3.41 - 3.28 (m, 1 H), 3.25 - 3.06 (m, 2H), 2.98 (d, *J* = 8.2 Hz, 2H).

Example 61: 2-(Biphenyl-2-ylcarbonyl)-5-[4-(1H-pyrazol-4-yl)pyrimidin-2-yl]octahydro-pyrrolo[3,4-c]pyrrole.

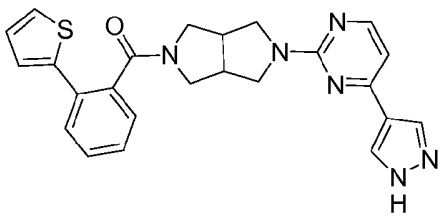
[0481]



[0482] The title compound was prepared in a manner analogous to Example 15 utilizing Intermediate 17 and 2-chloro-4-(1 H-pyrazol-3-yl)-pyrimidine. MS (ESI) mass calcd. for $C_{26}H_{24}N_6O$, 436.57; m/z found, 437.2 $[M+H]^+$.

Example 62: 2-[4-(1H-Pyrazol-4-yl)pyrimidin-2-yl]-5-[(2-thiophen-2-ylphenyl)carbonyl]octahydro-pyrrolo[3,4-c]pyrrole.

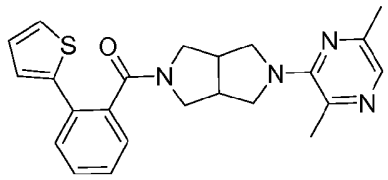
[0483]



[0484] The title compound was prepared in a manner analogous to Example 15 utilizing Intermediate 37 and 2-chloro-4-(1 H-pyrazol-3-yl)-pyrimidine. MS (ESI) mass calcd. for $C_{24}H_{22}N_6OS$, 442.54; m/z found, 443.1 $[M+H]^+$.

Example 63: 2-(3,6-Dimethylpyrazin-2-yl)-5-[(2-thiophen-2-ylphenyl)carbonyl]octahydro-pyrrolo[3,4-c]pyrrole.

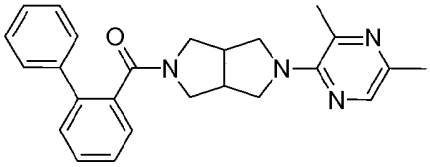
[0485]



[0486] The title compound was prepared in a manner analogous to Example 15 utilizing Intermediate 37 and 3-chloro-2,5-dimethyl-pyrazine. MS (ESI) mass calcd. for $C_{23}H_{24}N_4OS$, 404.54; m/z found, 405.2 $[M+H]^+$.

Example 64: 2-(Biphenyl-2-ylcarbonyl)-5-(3,5-dimethylpyrazin-2-yl)octahydropyrrolo[3,4-c]pyrrole.

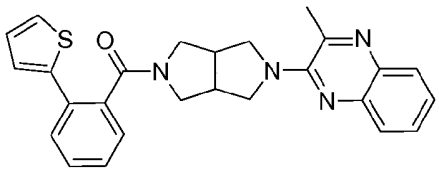
[0487]



[0488] The title compound was prepared in a manner analogous to Example 15 utilizing Intermediate 17 and 2-chloro-3,5-dimethyl-pyrazine. MS (ESI) mass calcd. for $C_{25}H_{26}N_4O$, 398.50; m/z found, 399.2 $[M+H]^+$.

Example 65: 2-Methyl-3-{5-[(2-thiophen-2-ylphenyl)carbonyl]hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl}quinoxaline.

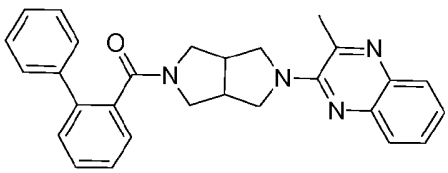
[0489]



[0490] The title compound was prepared in a manner analogous to Example 15 utilizing Intermediate 37 and 2-chloro-3-methyl-quinoxaline. MS (ESI) mass calcd. for $C_{26}H_{24}N_4OS$, 440.56; m/z found, 441.1 $[M+H]^+$. ^1H NMR ($CDCl_3$): rotamers observed 7.77 (d, J = 7.9 Hz, 1 H), 7.64 (d, J = 7.9 Hz, 1 H), 7.51 - 7.40 (m, 2H), 7.40 - 7.25 (m, 4H), 7.20 - 7.14 (m, 2H), 6.93 (br s, 1 H), 3.86 - 3.74 (m, 2H), 3.70-3.60 (br m, 1.3H), 3.58 - 3.40 (br m, 1.6H), 3.26 - 3.10 (m, 1.7H), 2.95-2.82 (br m, 1.7H), 2.76 (br m, 1.5H), 2.62 (s, 3H).

Example 66: 2-[5-(Biphenyl-2-ylcarbonyl)hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl]-3-methylquinoxaline.

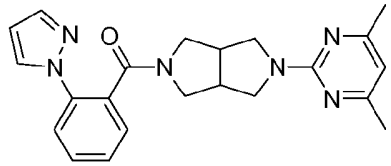
[0491]



[0492] The title compound was prepared in a manner analogous to Example 15 utilizing Intermediate 17 and 2-chloro-3-methyl-quinoxaline. MS (ESI) mass calcd. for $C_{28}H_{26}N_4O$, 434.53; m/z found, 435.1 $[M+H]^+$. ^1H NMR ($CDCl_3$): 7.85-7.72 (m, 1 H), 7.65 (br s, 1 H), 7.53 - 7.30 (m, 9H), 7.21 (d, *J* = 10.5 Hz, 2H), 3.80-3.54 (br m, 3.5H), 3.44 - 3.28 (br m, 1.5H), 3.15-2.90 broad (m, 2.5H), 2.85-2.70 (br m, 1.5H), 2.65-2.50(m, 4H).

Example 67: 2-(4,6-Dimethylpyrimidin-2-yl)-5-{[2-(1H-pyrazol-1-yl)phenyl]carbonyl}octahydro-pyrrolo[3,4-c]pyrrole.

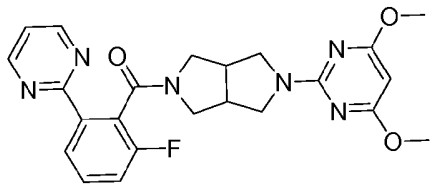
[0493]



[0494] The title compound was prepared in a manner analogous to Example 15 utilizing Intermediate 23 and 2-pyrazol-1-yl-benzoic acid. MS (ESI) mass calcd. for $C_{24}H_{24}N_6O$, 388.47; m/z found, 389.1 $[M+H]^+$. ^1H NMR ($CDCl_3$): rotamers observed, 7.73 (broad d, *J* = 1.9 Hz, 1 H), 7.52 (broad d, *J* = 7.9 Hz, 1.6H), 7.48 - 7.39 (m, 1.3H), 7.38 - 7.29 (m, 2H), 6.31 (br s, 1 H), 6.22 (s, 1 H), 3.75 - 3.64 (m, 2H), 3.46 (dd, *J* = 12.7, 4.4 Hz, 1.4H), 3.38 broad (s, 7H), 3.27 (dd, *J* = 11.7, 4.2 Hz, 1.3H), 3.10 (br s, 1 H), 2.90-2.65 (m, 3.3H), 2.23 (s, 6H).

Example 68: 2-(4,6-Dimethoxypyrimidin-2-yl)-5-[(2-fluoro-6-pyrimidin-2-ylphenyl)carbonyl] octahydropyrrolo[3,4-c]pyrrole.

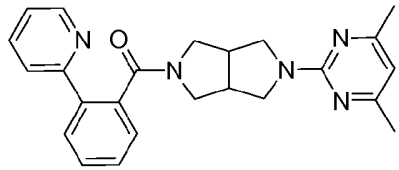
[0495]



[0496] The title compound was prepared in a manner analogous to Example 15 utilizing Intermediate 14 and Intermediate 39. MS (ESI) mass calcd. for $C_{23}H_{23}FN_6O_3$, 450.47; m/z found, 451.1 $[M+H]^+$. ^1H NMR ($CDCl_3$): rotamers observed, 8.75-8.65 (m, 2H), 8.12-8.01 (m, 1 H), 7.45-7.38(m, 1 H), 7.20-7.12 (m, 1 H), 7.05 (t, *J* = 4.9 Hz, 1 H), 5.32 (s, 1 H), 3.96 - 3.41 (m, 12.4H), 3.32-2.27 (m, 0.7H), 3.22-3.15 (m, 0.5H), 3.06 - 2.86 (m, 2.4H).

Example 69: 2-(4,6-Dimethylpyrimidin-2-yl)-5-[(2-pyridin-2-ylphenyl)carbonyl]octahydro-pyrrolo[3,4-c]pyrrole.

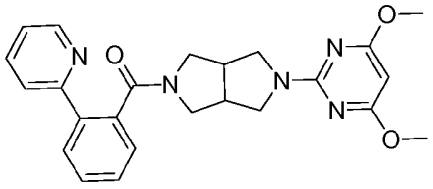
[0497]



[0498] The title compound was prepared in a manner analogous to Example 15 utilizing Intermediate 23 and 2-pyridin-2-yl-benzoic acid. MS (ESI) mass calcd. for $C_{24}H_{25}N_5O$, 399.49; m/z found, 400.1 $[M+H]^+$.

Example 70: 2-(4,6-Dimethoxypyrimidin-2-yl)-5-[(2-pyridin-2-ylphenyl)carbonyl]octahydro-pyrrolo[3,4-c]pyrrole.

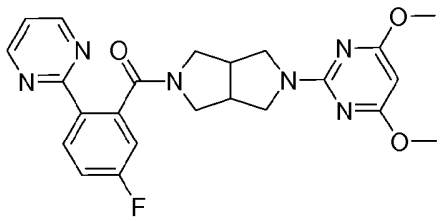
[0499]



[0500] The title compound was prepared in a manner analogous to Example 15 utilizing Intermediate 39 and 2-pyridin-2-yl-benzoic acid. MS (ESI) mass calcd. for $C_{24}H_{25}N_5O_3$, 431.49; m/z found, 432.2 $[M+H]^+$. ^1H NMR ($CDCl_3$): 8.49 (d, J = 3.9 Hz, 1 H), 7.69 - 7.49 (m, 3H), 7.48 - 7.29 (m, 3H), 7.15-7.04 (m, 1 H), 5.32 (s, 1 H), 3.92 - 3.61 (m, 8H), 3.60 - 3.40 (m, 2H), 3.35-3.15 (m, 3H), 2.98 - 2.65 (m, 3H).

Example 71: 2-(4,6-Dimethoxypyrimidin-2-yl)-5-[(5-fluoro-2-pyrimidin-2-ylphenyl)carbonyl] octahydropyrrolo[3,4-c]pyrrole.

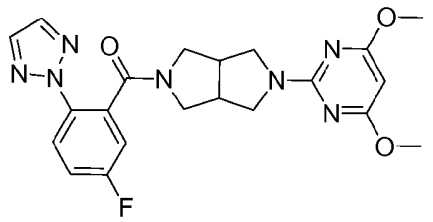
[0501]



[0502] The title compound was prepared in a manner analogous to Example 15 utilizing Intermediate 39 and Intermediate 13. MS (ESI) mass calcd. for $C_{23}H_{23}FN_6O_3$, 450.18; m/z found, 451.1 $[M+H]^+$. ^1H NMR ($CDCl_3$): 8.68 (d, J = 4.9 Hz, 2H), 8.25 (dd, J = 8.7, 5.5 Hz, 1 H), 7.28-7.15 (m, 2H), 7.12 (dd, J = 8.6, 2.5 Hz, 1 H), 5.31 (s, 1 H), 3.84 - 3.65 (m, 7H), 3.63 - 3.33 (m, 5H), 3.13 - 2.86 (m,4H).

Example 72: 2-(4,6-Dimethoxypyrimidin-2-yl)-5-{[5-fluoro-2-(2H-1,2,3-triazol-2-yl)phenyl]carbonyl}octahydropyrrolo[3,4-c]pyrrole.

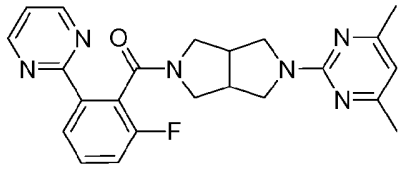
[0503]



[0504] The title compound was prepared in a manner analogous to Example 15 utilizing Intermediate 39 and Intermediate 1. MS (ESI) mass calcd. for $C_{22}H_{22}FN_7O_3$, 439.18; m/z found, 440.1 $[M+H]^+$. ^1H NMR ($CDCl_3$): 7.89 (dd, J = 8.9, 4.7 Hz, 1 H), 7.66 (s, 1 H), 7.25 - 7.01 (m, 2H), 5.32 (s, 1 H), 3.77 (m, 8H), 3.67 - 3.54 (m, 2H), 3.52 - 3.26 (m, 3H), 3.01 - 2.78 (m, 3H).

Example 73: 2-(4,6-Dimethylpyrimidin-2-yl)-5-[(2-fluoro-6-pyrimidin-2-ylphenyl)carbonyl]octahydropyrrolo[3,4-c]pyrrole.

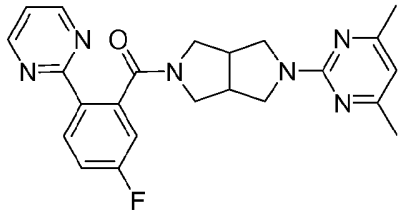
[0505]



[0506] The title compound was prepared in a manner analogous to Example 15 utilizing Intermediate 23 and Intermediate 14. MS (ESI) mass calcd. for $C_{23}H_{23}FN_6O$, 418.47; m/z found, 419.1 $[M+H]^+$. ^1H NMR ($CDCl_3$): 8.75-8.65 (m, 2H), 8.10-7.96 (m, 1.2H), 7.40 (dd, *J* = 13.8, 8.0 Hz, 1.2H), 7.24 - 7.08 (m, 2.7H), 7.08-7.00 (m , 0.8H), 6.22 (s, 1 H), 4.00 - 3.39 (m, 7H), 3.34 - 3.14 (m, 1 H), 3.01 (d, *J* = 6.8 Hz, 2H), 2.23 (s, 6H).

Example 74: 2-(4,6-Dimethylpyrimidin-2-yl)-5-[(5-fluoro-2-pyrimidin-2-ylphenyl)carbonyl]octahydropyrrolo[3,4-c]pyrrole.

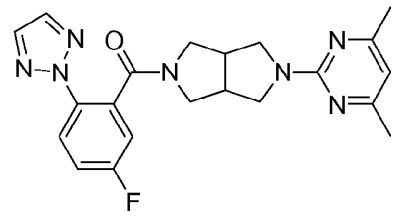
[0507]



[0508] The title compound was prepared in a manner analogous to Example 15 utilizing Intermediate 23 and Intermediate 13. MS (ESI) mass calcd. for $C_{23}H_{23}FN_6O$, 418.47; m/z found, 419.1 $[M+H]^+$. ^1H NMR ($CDCl_3$): 8.81 (d, *J* = 4.9 Hz, 2H), 8.36 (dd, *J* = 8.8, 5.6 Hz, 1 H), 7.44 - 7.14 (m, 3H), 6.44 (s, 1 H), 6.44 (s, 1 H), 3.98 - 3.75 (m, 2H), 3.76 - 3.48 (m, 5H), 3.24 - 2.97 (m, 3H), 2.32 (s, 6H).

Example 75: 2-(4,6-Dimethylpyrimidin-2-yl)-5-{[5-fluoro-2-(2H-1,2,3-triazol-2-yl)phenyl]carbonyl}octahydropyrrolo[3,4-c]pyrrole.

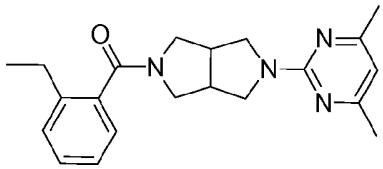
[0509]



[0510] The title compound was prepared in a manner analogous to Example 15 utilizing Intermediate 23 and Intermediate 1. MS (ESI): mass calculated for $C_{21}H_{22}FN_7O$, 407.45, m/z found 408.2 $[M+1]^+$. ^1H NMR ($CDCl_3$) 7.97 - 7.92 (m, 1 H), 7.73 (s, 2H), 7.23 - 7.06 (m, 2H), 6.30 (s, 1 H), 3.90 - 3.80 (m, Hz, 2H), 3.72 - 3.55 (m, 5.9 Hz, 4H), 3.53 - 3.46 (m, Hz, 1 H), 3.39 (br s, 1 H), 3.08 - 2.87 (m, 4H), 2.30 (s, 6H).

Example 76: 2-(4,6-Dimethylpyrimidin-2-yl)-5-[(2-ethylphenyl)carbonyl]octahydropyrrolo[3,4-c]pyrrole.

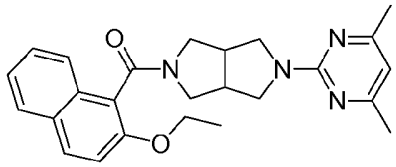
[0511]



[0512] The title compound was prepared in a manner analogous to Example 15 utilizing Intermediate 23 and 2-ethylbenzoic acid. MS (ESI) mass calcd. for $C_{21}H_{26}N_4O$, 350.47; m/z found, 351.3 $[M+H]^+$. ^1H NMR ($CDCl_3$): 7.34 - 7.14 (m, 4H), 6.30 (s, 1 H), 3.93 (m, 2H), 3.77 (dd, *J* = 11.6, 7.3 Hz, 1 H), 3.64 (m, 2H), 3.51 - 3.41 (m, 2H), 3.16 - 3.02 (m, 2H), 3.01 - 2.90 (m, 1H), 2.69 - 2.57 (m, 2H), 2.29 (s, 6H), 1.20 (t, *J* = 7.6 Hz, 3H).

Example 77: 2-(4,6-Dimethylpyrimidin-2-yl)-5-[(2-ethoxynaphthalen-1-yl)carbonyl]octahydro-pyrrolo[3,4-c]pyrrole.

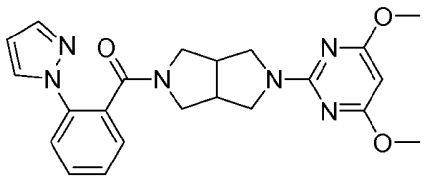
[0513]



[0514] The title compound was prepared in a manner analogous to Example 15 utilizing Intermediate 23 and 2-ethoxy-naphthalene-1-carboxylic acid. MS (ESI) mass calcd. for $C_{25}H_{28}N_4O_2$, 416.53; m/z found, 417.2 $[M+H]^+$.

Example 78: 2-(4,6-Dimethoxypyrimidin-2-yl)-5-{[2-(1 H-pyrazol-1-yl)phenyl]carbonyl}octahydro-pyrrolo[3,4-c]pyrrole.

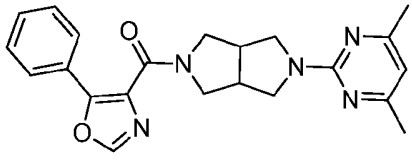
[0515]



[0516] The title compound was prepared in a manner analogous to Example 15 utilizing Intermediate 39 and 2-pyrazol-1-yl-benzoic acid. MS (ESI) mass calcd. for $C_{22}H_{24}N_6O_3$, 420.46; m/z found, 421.1 $[M+H]^+$. ^1H NMR ($CDCl_3$): 7.74 (d, *J* = 2.0 Hz, 1 H), 7.59 - 7.29 (m, 5H), 6.31 (br s, 1 H), 5.32 (s, 1 H), 3.90 - 3.64 (m, 7.8H), 3.61 - 3.41 (m, 2.2H), 3.40-3.05 (m, 3H), 2.95-2.65 (m, 3H).

Example 79: 2-(4,6-Dimethylpyrimidin-2-yl)-5-[(5-phenyl-1,3-oxazol-4-yl)carbonyl]octahydro-pyrrolo[3,4-c]pyrrole.

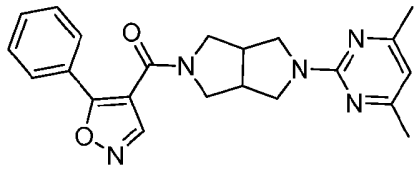
[0517]



[0518] The title compound was prepared in a manner analogous to Example 15 utilizing Intermediate 23 and 5-phenyl-oxazole-4-carboxylic acid. MS (ESI) mass calcd. for $C_{22}H_{23}N_5O_2$, 389.46; m/z found, 390.2 $[M+H]^+$. ^1H NMR ($CDCl_3$): 7.91 (m, 2H), 7.86 (s, 1 H), 7.46 - 7.33 (m, 3H), 6.28 (s, 1 H), 4.03 - 3.83 (m, 3H), 3.74 (m, 2H), 3.64 - 3.47 (m, 3H), 3.08 - 2.98 (m, 2H), 2.29 (m, 6H).

Example 80: 2-(4,6-Dimethylpyrimidin-2-yl)-5-[(5-phenylisoxazol-4-yl)carbonyl]octahydro-pyrrolo[3,4-c]pyrrole.

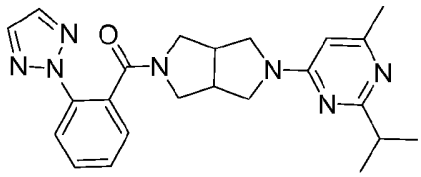
[0519]



[0520] The title compound was prepared in a manner analogous to Example 15 utilizing Intermediate 23 and 5-phenyl-isoxazole-4-carboxylic acid. MS (ESI) mass calcd. for $C_{22}H_{23}N_5O_2$, 389.46; m/z found, 390.2 $[M+H]^+$. ^1H NMR ($CDCl_3$): 8.37 (s, 1 H), 7.84 - 7.75 (m, 2H), 7.49 - 7.36 (m, 3H), 6.30 (s, 1 H), 4.00 - 3.80 (m, 2H), 3.73 - 3.62 (m, 2H), 3.59-3.42 (m, 2H), 3.36 (dd, *J* = 11.7, 4.5 Hz, 1 H), 3.16 - 2.85 (m, 3H), 2.37 - 2.22 (s, 6H).

Example 81: [5-(2-Isopropyl-6-methyl-pyrimidin-4-yl)-hexahydro-pyrrolo[3,4-c]pyrrol-2-yl]-(2-[1,2,3]triazol-2-yl-phenyl)-methanone.

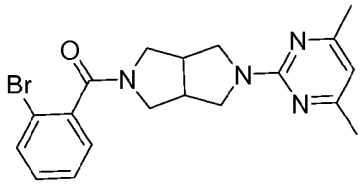
[0521]



[0522] The title compound was prepared in a manner analogous to Example 15 utilizing Intermediate 20 and 4-chloro-2-isopropyl-6-methyl-pyrimidine. MS (ESI): mass calculated for $C_{23}H_{27}N_7O$, 417.51, m/z found 418.2 $[M+H]^+$. ^1H NMR (400 MHz, $CDCl_3$): 7.99 (d, *J* = 8.0 Hz, 1 H), 7.73 (s, 2H), 7.59 - 7.38 (m, 3H), 5.92 (s, 1 H), 3.97 - 2.85 (m, 10H), 2.35 (s, 3H), 1.33 - 1.21 (m, 6H).

Example 82: 2-[(2-Bromophenyl)carbonyl]-5-(4,6-dimethylpyrimidin-2-yl)octahydropyrrolo[3,4-c]pyrrole.

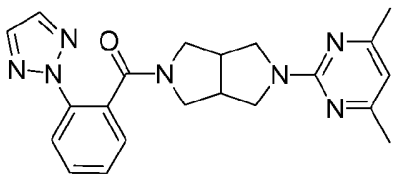
[0523]



[0524] The title compound was prepared in a manner analogous to Example 15 utilizing Intermediate 23 and 2-bromobenzoic acid. MS (ESI) mass calcd. for $C_{19}H_{21}BrN_4O$, 401.31; m/z found, 401.1, 403.1 $[M+H]^+$.

Example 83: 2-(4,6-Dimethylpyrimidin-2-yl)-5-{[2-(2H-1,2,3-triazol-2-yl)phenyl]carbonyl} octahydropyrrolo[3,4-c]pyrrole.

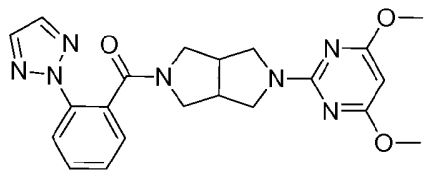
[0525]



[0526] The title compound was prepared in a manner analogous to Example 15 utilizing Intermediate 23 and Intermediate 2. MS (ESI) mass calcd. for $C_{21}H_{23}N_7O$, 389.46; m/z found, 374.2 $[M+H]^+$. ^1H NMR ($CDCl_3$): 7.98 (d, J = 8.1 Hz, 1 H), 7.74 (br s, 2H), 7.55 - 7.48 (m, 1 H), 7.42 (d, J = 4.1 Hz, 2H), 6.29 (s, 1 H), 3.93 - 3.81 (m, 2H), 3.64 (m, 3H), 3.48 (dd, J = 11.6, 4.2 Hz, 1 H), 3.36 (br s, 1 H), 3.08 - 2.86 (m, 3H), 2.30 (s, 6H).

Example 84: 2-(4,6-Dimethoxypyrimidin-2-yl)-5-{[2-(2H-1,2,3-triazol-2-yl)phenyl]carbonyl} octahydropyrrolo[3,4-c]pyrrole.

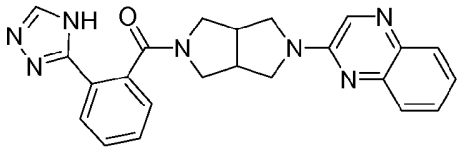
[0527]



[0528] The title compound was prepared in a manner analogous to Example 15 utilizing Intermediate 20 and 2-chloro-4,6-dimethoxypyrimidine. MS (ESI) mass calcd. for $C_{21}H_{23}N_7O_3$, 421.46; m/z found, 422.2 $[M+H]^+$. ^1H NMR ($CDCl_3$): 8.05 - 7.95 (m, 2H), 7.75 (br s, 1 H), 7.57 - 7.48 (m, 1 H), 7.46-7.41 (m, 2H), 5.39 (s, 1 H), 3.93 - 3.79 (m, 5H), 3.76 - 3.62 (m, 2H), 3.56 (dd, J = 11.8, 5.4 Hz, 1 H), 3.49 - 3.33 (m, 2H), 2.96 (s, 3H), 2.89 (s, 3H).

Example 85: 2-[5-{[2-(4H-1,2,4-Triazol-3-yl)phenyl]carbonyl}hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl]quinoxaline.

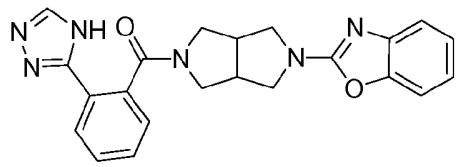
[0529]



[0530] The title compound was prepared in a manner analogous to Example 15 utilizing Intermediate 35 and 2-(4H-[1,2,4]triazol-3-yl)-benzoic acid. MS (ESI) mass calcd. for $C_{23}H_{21}N_7O$, 411.47; m/z found, 412.2 $[M+H]^+$. ^1H NMR ($CDCl_3$): 8.28 (s, 1 H), 8.11 (d, J = 8.1 Hz, 1 H), 8.01 (br s, 1 H), 7.89 (dd, J = 8.2, 1.2 Hz, 1 H), 7.69 (dd, J = 8.4, 1.0 Hz, 1 H), 7.59 (ddd, J = 8.4, 7.0, 1.4 Hz, 1 H), 7.55 - 7.43 (m, 2H), 7.42 - 7.33 (m, 2H), 3.89-4.00 (m, 2H), 3.82-3.72 (m, 2H), 3.71-3.64 (m, 1 H), 3.55-3.42 (m, 2H), 3.20-2.98 (m, 3H).

Example 86: 2-[5-{[2-(4H-1,2,4-Triazol-3-yl)phenyl]carbonyl}hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl]-1,3-benzoxazole.

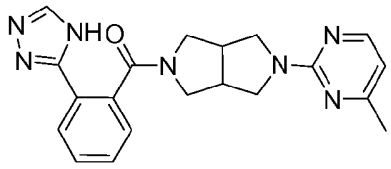
[0531]



[0532] The title compound was prepared in a manner analogous to Example 15 utilizing Intermediate 28 and 2-(4H-[1,2,4]triazol-3-yl)-benzoic acid. MS (ESI) mass calcd. for $C_{22}H_{20}N_6O_2$, 400.43; m/z found, 401.2 $[M+H]^+$. ^1H NMR ($CDCl_3$): 8.15-8.02 (m 2H), 7.56 - 7.40 (m, 2H), 7.347-7.30(m, 2H), 7.29 - 7.23 (m, 1 H), 7.17 (td, J = 7.7, 1.1 Hz, 1 H), 7.05 - 6.98 (m, 1 H), 3.98 - 3.42 (m, 7H), 3.26 - 2.93 (m, 3H).

Example 87: 2-(4-Methylpyrimidin-2-yl)-5-{[2-(4H-1,2,4-triazol-3-yl)phenyl]carbonyl}octahydro-pyrrolo[3,4-c]pyrrole.

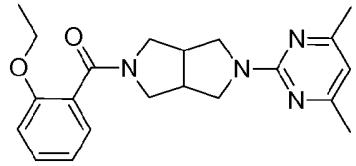
[0533]



[0534] The title compound was prepared in a manner analogous to Example 15 utilizing Intermediate 27 and 2-(4H-[1,2,4]triazol-3-yl)-benzoic acid. MS (ESI) mass calcd. for $C_{20}H_{21}N_7O$, 375.55; m/z found, 376.2 $[M+H]^+$. ^1H NMR ($CDCl_3$): 8.18 - 8.04 (m, 3H), 7.55.7.42 (m, 2H), 7.39 - 7.33 (m, 1 H), 6.39 (d, *J* = 5.0 Hz, 1 H), 3.96 - 3.79 (m, 2H), 3.77 - 3.63 (m, 2H), 3.62-3.55 (m, 1 H), 3.46 - 3.37 (m, 2H), 3.15-3.06 (m, 1 H), 3.05-2.98 (m, 1 H), 2.95-2.90 (m, 1 H), 2.33 (s, 3H).

Example 88: 2-(4,6-Dimethylpyrimidin-2-yl)-5-[(2-ethoxyphenyl)carbonyl]octahydropyrrolo[3,4-c]pyrrole.

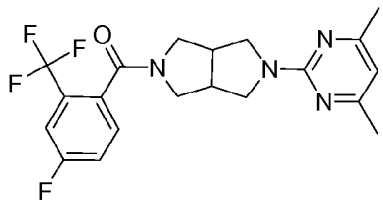
[0535]



[0536] The title compound was prepared in a manner analogous to Example 15 utilizing Intermediate 23 and 2-ethoxybenzoic acid. MS (ESI) mass calcd. for $C_{21}H_{26}N_4O_2$, 366.46; m/z found, 367.2 $[M+H]^+$. ^1H NMR ($CDCl_3$): 7.37 - 7.21 (m, 2H), 7.03 - 6.91 (m, 1 H), 6.88 (d, *J* = 8.3 Hz, 1 H), 6.26 (d, *J* = 20.0 Hz, 1 H), 4.04 (q, *J* = 7.0 Hz, 2H), 3.95-3.85 (m, 2H), 3.76 (dd, *J* = 11.5, 7.3 Hz, 1 H), 3.69-3.59 (m, 2H), 3.57 - 3.45 (m, 2H), 3.29-3.20 (m, 1 H), 3.12 - 2.89 (m, 2H), 2.29 (s, 6H), 1.33 (t, *J* = 7.0 Hz, 3H).

Example 89: 2-(4,6-Dimethylpyrimidin-2-yl)-5-{[4-fluoro-2-(trifluoromethyl)phenyl]carbonyl} octahydropyrrolo[3,4-c]pyrrole.

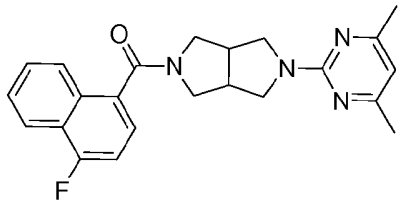
[0537]



[0538] The title compound was prepared in a manner analogous to Example 15 utilizing Intermediate 23 and 2-trifluoromethyl-4-fluorobenzoic acid. MS (ESI) mass calcd. for $C_{20}H_{20}F_4N_4O$, 408.4; m/z found, 409.2 $[M+H]^+$. ^1H NMR ($CDCl_3$): 7.46 - 7.27 (m, 3H), 6.37 - 6.25 (m, 1 H), 4.01-3.87 (m, 2H), 3.82-3.76 (m 1 H), 3.67-3.57 (m, 2H), 3.53 - 3.38 (m, 2H), 3.14 - 3.04 (m, 2H), 3.04-2.96 m, 1H), 2.31 (s 6H).

Example 90: 2-(4,6-Dimethylpyrimidin-2-yl)-5-[(4-fluoronaphthalen-1-yl)carbonyl]octahydro-pyrrolo[3,4-c]pyrrole.

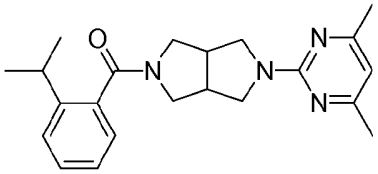
[0539]



[0540] The title compound was prepared in a manner analogous to Example 15 utilizing Intermediate 23 and 4-fluoro-naphthalene-1-carboxylic acid. MS (ESI) mass calcd. for $C_{23}H_{23}FN_4O$, 390.45; m/z found, 391.2 $[M+H]^+$. ^1H NMR ($CDCl_3$): 8.16-8.10(m 1 H), 7.92 - 7.82 (m, 1 H), 7.63 - 7.53 (m, 2H), 7.403-7.36(m, 1H), 7.14 (dd, *J* = 10.2, 7.8 Hz, 1H), 6.31 (s, 1H), 4.14-4.06 (m, 1H), 3.95-3.89 (m, 1 H), 3.84 - 3.63 (m, 3H), 3.50 - 3.37 (m, 2H), 3.17-3.08 (m, 2H), 2.98 - 2.90 (m, 1 H), 2.30 (s, 6H).

Example 91: 2-(4,6-Dimethylpyrimidin-2-yl)-5-{[2-(1-methylethyl)phenyl]carbonyl}octahydro-pyrrolo[3,4-c]pyrrole.

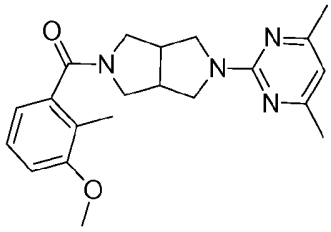
[0541]



[0542] The title compound was prepared in a manner analogous to Example 15 utilizing Intermediate 23 and 2-isopropyl-benzoic acid. MS (ESI) mass calcd. for $C_{22}H_{28}N_4O$, 364.48; m/z found, 365.3 $[M+H]^+$. ^1H NMR ($CDCl_3$): 7.37 - 7.30 (m, 2H), 7.23 - 7.10 (m, 2H), 6.30 (s, 1 H), 4.00-3.86 (m, 2H), 3.79-3.73 (m, 1 H), 3.71-3.58 (m, 2H), 3.51-3.40 (m, 2H), 3.19 - 2.89 (m, 4H), 2.30 (s, 6H), 1.29 - 1.17 (m, 6H).

Example 92: 2-(4,6-Dimethylpyrimidin-2-yl)-5-[(3-methoxy-2-methylphenyl)carbonyl]octahydro-pyrrolo[3,4-c]pyrrole.

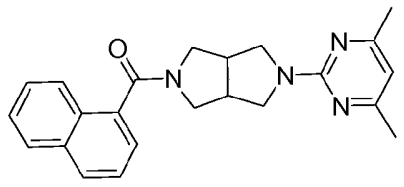
[0543]



[0544] The title compound was prepared in a manner analogous to Example 15 utilizing Intermediate 23 and 3-methoxy-2-methyl-benzoic acid. MS (ESI) mass calcd. for $C_{21}H_{26}N_4O_2$, 366.47; m/z found, 367.2 $[M+H]^+$. ^1H NMR ($CDCl_3$): 7.19 (dd, *J* = 14.3, 6.5 Hz, 1 H), 6.81 (dd, *J* = 14.3, 7.8 Hz, 2H), 6.30 (s, 1 H), 4.01 - 3.85 (m, 2H), 3.83 (s, 3H), 3.77 (dd, *J* = 11.6, 7.3 Hz, 1 H), 3.69-3.58 (m, 2H), 3.50 - 3.39 (m, 2H), 3.15 - 3.00 (m, 2H), 3.00 - 2.90 (m, 1 H), 2.30 (s, 6H), 2.14 (s, 3H).

Example 93: 2-(4,6-Dimethylpyrimidin-2-yl)-5-(naphthalen-1-ylcarbonyl)octahydropyrrolo[3,4-c]pyrrole.

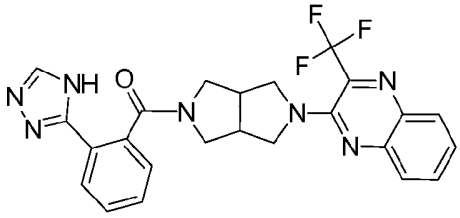
[0545]



[0546] The title compound was prepared in a manner analogous to Example 15 utilizing Intermediate 23 and naphthalene-1-carboxylic acid. MS (ESI) mass calcd. for $C_{23}H_{24}N_4O$, 372.46; m/z found, 373.2 $[M+H]^+$. ^1H NMR ($CDCl_3$): 7.91 - 7.79 (m, 3H), 7.54 - 7.40 (m, 4H), 6.30 (s, 1 H), 4.11 (dd, *J* = 12.8, 7.9 Hz, 1 H), 3.92 (dd, *J* = 11.6, 7.6 Hz, 1 H), 3.80 (dd, *J* = 12.8, 4.9 Hz, 1 H), 3.75 - 3.64 (m, 2H), 3.49 - 3.36 (m, 2H), 3.17 - 3.06 (m, 2H), 2.97 - 2.87 (m, 1 H), 2.31 (s, 6H).

Example 94: 2-[5-{[2-(4H-1,2,4-Triazol-3-yl)phenyl]carbonyl}hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl]-3-(trifluoromethyl)quinoxaline.

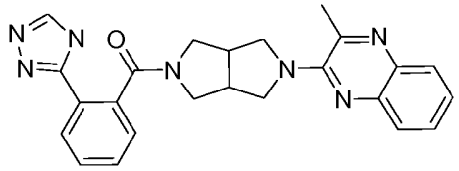
[0547]



[0548] The title compound was prepared in a manner analogous to Example 15 utilizing Intermediate 30 and 2-(4H-[1,2,4]triazol-3-yl)-benzoic acid. MS (ESI) mass calcd. for $C_{24}H_{20}F_4N_7O$, 479.47; m/z found, 480.2 $[M+H]^+$. ^1H NMR ($CDCl_3$): 8.12 - 7.93 (m, 3H), 7.77 (dd, *J* = 8.5, 0.9 Hz, 1 H), 7.69 (ddd, *J* = 8.4, 6.8, 1.4 Hz, 1 H), 7.52 - 7.41 (m, 3H), 7.38-7.34 (m, 1 H), 4.01 - 3.79 (m, 3H), 3.78 - 3.66 (m, 2H), 3.49 (dd, *J* = 23.0, 15.0 Hz, 2H), 3.16 - 2.88 (m, 3H).

Example 95: 2-Methyl-3-[5-{[2-(4H-1,2,4-triazol-3-yl)phenyl]carbonyl}hexahydropyrrolo[3,4-c]pyrrol-2(1 H)-yl]quinoxaline.

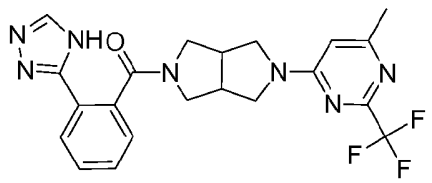
[0549]



[0550] The title compound was prepared in a manner analogous to Example 15 utilizing Intermediate 29 and 2-(4H-[1,2,4]triazol-3-yl)-benzoic acid. MS (ESI) mass calcd. for $C_{24}H_{23}N_7O$, 425.49; m/z found, 426.3 $[M+H]^+$. ^1H NMR ($CDCl_3$): 8.13 (d, *J* = 7.3 Hz, 1 H), 8.01 (s, 1 H), 7.83 (dd, *J* = 8.2, 1.1 Hz, 1 H), 7.72 (dd, *J* = 8.3, 1.0 Hz, 1 H), 7.59 - 7.35 (m, 5H), 4.00 - 3.65 (m, 5H), 3.47 (s, 2H), 3.22 - 2.89 (m, 3H), 2.70 (s, 3H).

Example 96: 2-[6-Methyl-2-(trifluoromethyl)pyrimidin-4-yl]-5-{[2-(4H-1,2,4-triazol-3-yl)phenyl]carbonyl}octahydropyrrolo[3,4-c]pyrrole.

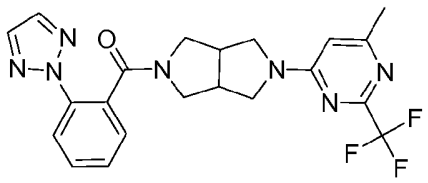
[0551]



[0552] The title compound was prepared in a manner analogous to Example 15 utilizing Intermediate 31 and 2-(4H-[1,2,4]triazol-3-yl)-benzoic acid. MS (ESI) mass calcd. for $C_{21}H_{20}F_3N_7O$, 443.43; m/z found, 444.2 $[M+H]^+$. ^1H NMR ($CDCl_3$): 8.11 - 7.99 (m,2H), 7.55 - 7.42 (m, 2H), 7.37 - 7.29 (m, 1 H), 6.17 (br s, 1 H), 3.92-3.39 (m, 7H), 3.15-2.90 (m 3H), 2.42 (s, 3H).

Example 97: 2-[6-Methyl-2-(trifluoromethyl)pyrimidin-4-yl]-5-{[2-(2H-1,2,3-triazol-2-yl)phenyl]carbonyl}octahydropyrrolo[3,4-c]pyrrole.

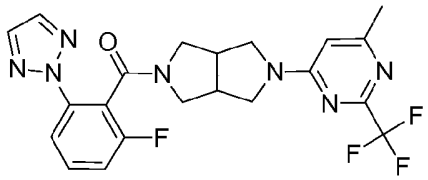
[0553]



[0554] The title compound was prepared in a manner analogous to Example 15 utilizing Intermediate 31 and Intermediate 2. MS (ESI) mass calcd. for $C_{21}H_{20}F_3N_7O$, 443.43; m/z found, 444.2 $[M+H]^+$. ^1H NMR ($CDCl_3$): 7.99 (d, J = 8.0 Hz, 1 H), 7.74 (s, 2H), 7.58 - 7.49 (m, 1 H), 7.48 - 7.38 (m, 2H), 6.22 (br s, 1 H), 4.05 - 3.33 (m, 7H), 3.24 - 2.91 (m, 3H), 2.45 (s, 3H).

Example 98: 2-{[2-Fluoro-6-(2H-1,2,3-triazol-2-yl)phenyl]carbonyl}-5-[6-methyl-2-(trifluoromethyl)pyrimidin-4-yl]octahydropyrrolo[3,4-c]pyrrole.

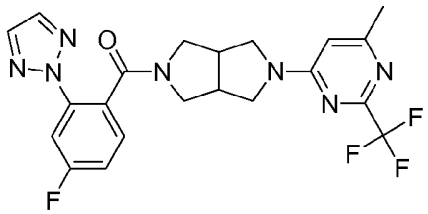
[0555]



[0556] The title compound was prepared in a manner analogous to Example 15 utilizing Intermediate 31 and Intermediate 12. MS (ESI) mass calcd. for $C_{21}H_{19}F_4N_7O$, 461.42; m/z found, 462.1 $[M+H]^+$. ^1H NMR ($CDCl_3$): 7.91 - 7.78 (m, 2H), 7.72 (s, 1 H), 7.54 - 7.43 (m, 1 H), 7.20 - 7.10 (m, 1 H), 6.30-6.20 (br m, 1H), 4.07 - 3.52 (m, 6H), 3.42 - 3.02 (m, 4H), 2.47 (d, J = 19.9 Hz, 3H).

Example 99: 2-{[4-Fluoro-2-(2H-1,2,3-triazol-2-yl)phenyl]carbonyl}-5-[6-methyl-2-(trifluoromethyl)pyrimidin-4-yl]octahydropyrrolo[3,4-c]pyrrole.

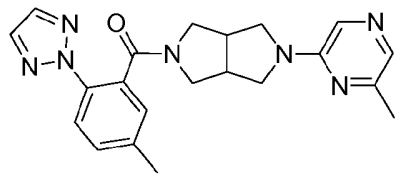
[0557]



[0558] The title compound was prepared in a manner analogous to Example 15 utilizing Intermediate 31 and Intermediate 4. MS (ESI) mass calcd. for $C_{21}H_{19}F_4N_7O$, 461.42; m/z found, 462.2 $[M+H]^+$. ^1H NMR ($CDCl_3$): 7.76 (br s, 3H), 7.47 - 7.36 (m, 1 H), 7.19 - 7.09 (m, 1 H), 6.22 (br s, 1H), 4.05 - 3.32 (m, 7H), 2.98 (dd, J = 40.7, 34.8 Hz,3H), 2.44 (s, 3H).

Example 100: 2-(6-Methylpyrazin-2-yl)-5-{[5-methyl-2-(2H-1,2,3-triazol-2 yl)phenyl]carbonyl} octahydropyrrolo[3,4-c]pyrrole.

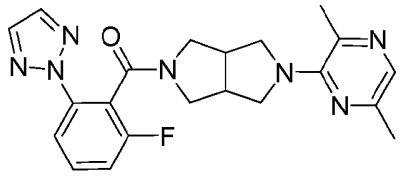
[0559]



[0560] The title compound was prepared in a manner analogous to Example 15 utilizing Intermediate 8 and 2-chloro-6-methyl-pyrazine. MS (ESI): mass calculated for $C_{21}H_{23}N_7O$, 389.46; m/z found 390.2 $[M+H]^+$. ^1H NMR (400 MHz, $CDCl_3$): 7.87 - 7.81 (m, 1 H), 7.75 - 7.53 (m, 4H), 7.35 - 7.29 (m, 1 H), 7.24 - 7.18 (m, 1 H), 3.94 - 3.83 (m, 1 H), 3.80 - 3.66 (m, 2H), 3.64 - 3.54 (m, 1 H), 3.50 - 3.30 (m, 3H), 3.12 - 2.90 (m, 3H), 2.41 (s, 2H), 2.38 (s, 3H).

Example 101: 2-(3,6-Dimethylpyrazin-2-yl)-5-{[2-fluoro-6-(2H-1,2,3-triazol-2-yl)phenyl]carbonyl} octahydropyrrolo[3,4-c]pyrrole.

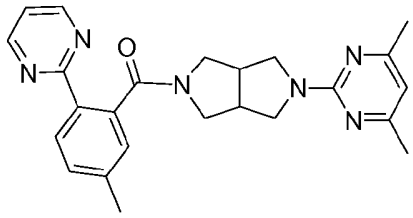
[0561]



[0562] The title compound was prepared in a manner analogous to Example 15 utilizing Intermediate 34 and Intermediate 12. MS (ESI): mass calculated for $C_{21}H_{22}FN_7O$, 407.45; m/z found 408.2 $[M+H]^+$. ^1H NMR (400 MHz, $CDCl_3$): 7.90 - 7.80 (m, 2H), 7.78 - 7.71 (m, 2H), 7.54 - 7.44 (m, 1 H), 7.20 - 7.12 (m, 1 H), 3.97 - 3.90 (m, 1 H), 3.86 - 3.40 (m, 6H), 3.32 - 3.22 (m, 1 H), 3.13 - 2.91 (m, 2H), 2.55 - 2.49 (m, 3H), 2.39 - 2.33 (m, 3H).

Example 102: 2-(4,6-Dimethylpyrimidin-2-yl)-5-[(5-methyl-2-pyrimidin-2-ylphenyl)carbonyl] octahydropyrrolo[3,4-c]pyrrole.

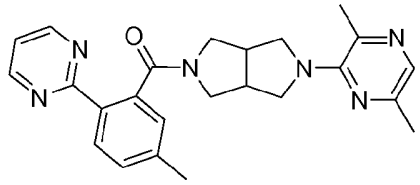
[0563]



[0564] The title compound was prepared in a manner analogous to Example 15 utilizing Intermediate 23 and 5-methyl-2-pyrimidin-2-yl-benzoic acid. MS (ESI): mass calculated for $C_{24}H_{26}N_6O$, 414.51; m/z found 415.2 $[M+H]^+$. ^1H NMR (400 MHz, $CDCl_3$): 8.74 (d, J = 4.9, 2H), 8.20 (d, J = 8.1, 1H), 7.34 - 7.28 (m, 1 H), 7.17 - 7.15 (m, 1 H), 7.10 - 7.03 (m, 1 H), 6.29 (s, 1 H), 3.95 - 3.79 (m, 2H), 3.76 - 3.61 (m, 3H), 3.59 - 3.40 (m, 2H), 3.18 - 3.10 (m, 1 H), 3.09 - 2.87 (m, 2H), 2.41 (s, 3H), 2.30 (s, 6H).

Example 103: 2-(3,6-Dimethylpyrazin-2-yl)-5-[(5-methyl-2-pyrimidin-2-ylphenyl)carbonyl] octahydropyrrolo[3,4-c]pyrrole.

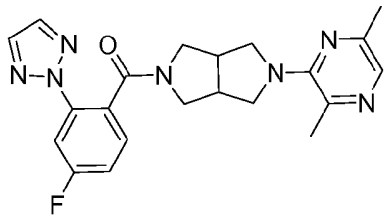
[0565]



[0566] The title compound was prepared in a manner analogous to Example 15 utilizing Intermediate 34 and 5-methyl-2-pyrimidin-2-yl-benzoic acid. MS (ESI): mass calculated for $C_{24}H_{26}N_6O$, 414.51; m/z found 415.2 $[M+H]^+$. ^1H NMR (400 MHz, $CDCl_3$): 8.77 (d, *J* = 4.9, 2H), 8.22 (d, *J* = 8.1, 1H), 7.73 (s, 1 H), 7.34 - 7.29 (m, 1H), 7.21 - 7.16 (m, 1 H), 7.11 (t, *J* = 4.8, 1 H), 3.96 - 3.89 (m, 1 H), 3.86 - 3.79 (m, 1 H), 3.74 - 3.61 (m, 2H), 3.57 - 3.51 (m, 1 H), 3.49 - 3.38 (m, 2H), 3.18 - 3.12 (m, 1 H), 3.08 - 2.98 (m, 1 H), 2.96 - 2.86 (m, 1 H), 2.50 (s, 3H), 2.42 (s, 3H), 2.36 (s, 3H).

Example 104: 2-(3,6-Dimethylpyrazin-2-yl)-5-{[4-fluoro-2-(2H-1,2,3-triazol-2-yl)phenyl]carbonyl} octahydropyrrolo[3,4-c]pyrrole.

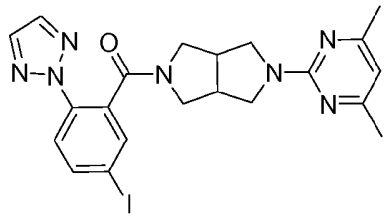
[0567]



[0568] The title compound was prepared in a manner analogous to Example 15 utilizing Intermediate 34 and Intermediate 4. MS (ESI): mass calculated for $C_{21}H_{22}FN_7O$, 407.45; m/z found 408.2 $[M+H]^+$. ^1H NMR (400 MHz, $CDCl_3$) 7.83 - 7.72 (m, 4H), 7.42 (dd, *J* = 8.5, 5.8, 1H), 7.14 (ddd, *J* = 8.5, 7.8, 2.5, 1 H), 3.94 - 3.86 (m, 1 H), 3.82 - 3.74 (m, 1 H), 3.73 - 3.60 (m, 2H), 3.56 - 3.47 (m, 1 H), 3.42 - 3.31 (m, 2H), 3.10 - 2.82 (m, 3H), 2.50 (s, 3H), 2.36 (s, 3H).

Example 105: 2-(4,6-Dimethylpyrimidin-2-yl)-5-{[5-iodo-2-(2H-1,2,3-triazol-2-yl)phenyl]carbonyl}octahydropyrrolo[3,4-c]pyrrole.

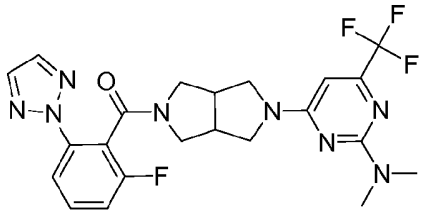
[0569]



[0570] The title compound was prepared in a manner analogous to Example 15 utilizing Intermediate 23 and Intermediate 12. MS (ESI): mass calculated for $C_{21}H_{22}IN_7O$, 515.36; m/z found 516.1 $[M+H]^+$. ^1H NMR (400 MHz, $CDCl_3$): 7.87 - 7.80 (m, 1 H), 7.79 - 7.67 (m, 4H), 6.30 (s, 1 H), 3.94 - 3.82 (m, 2H), 3.74 - 3.56 (m, 3H), 3.53 - 3.30 (m, 2H), 3.13 - 2.85 (m, 3H), 2.29 (s, 6H).

Example 106: 4-[5-{[2-Fluoro-6-(2H-1,2,3-triazol-2-yl)phenyl]carbonyl}hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl]-N,N-dimethyl-6-(trifluoromethyl)pyrimidin-2-amine.

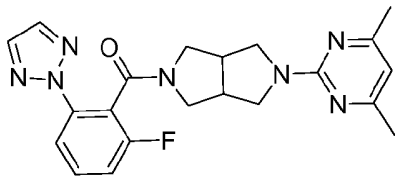
[0571]



[0572] The title compound was prepared in a manner analogous to Example 15 utilizing Intermediate 36 and Intermediate 12. MS (ESI): mass calculated for $C_{22}H_{22}F_4N8O$, 490.47; m/z found 491.0 $[M+H]^+$. ^1H NMR (400 MHz, $CDCl_3$): 7.89 - 7.64 (m, 3H), 7.56 - 7.44 (m, 1H), 7.19 - 7.10 (m, 1H), 6.01 - 5.74 (m, 1 H), 4.10 - 2.86 (m, 16H).

Example 107: [5-(4,6-Dimethyl-pyrimidin-2-yl)-hexahydro-pyrrolo[3,4-c]pyrrol-2-yl]-(2-fluoro-6-[1,2,3]triazol-2-yl-phenyl)-methanone.

[0573]



Method A:

[0574] [5-(4,6-Dimethyl-pyrimidin-2-yl)-hexahydro-pyrrolo[3,4-c]pyrrol-2-yl]-(2-fluoro-6-[1,2,3]triazol-2-yl-phenyl)-methanone. To a 3-necked, 3 L, round-bottomed flask equipped with a nitrogen line, temperature probe, heating mantle, reflux condenser, mechanical stirrer, and 1 N aq. NaOH scrubber were added 2-fluoro-6-[1,2,3]triazol-2-yl-benzoic acid (Intermediate 12, 120.98 g, 75 wt%, 90.74 g actual, 438 mmol) and toluene (1 L). The mixture was warmed to 50 °C for 1 h with stirring. The mixture was then cooled to 25 °C and thionyl chloride (47.9 mL, 657 mmol) was added. The mixture was warmed back to 50 °C and held for 1 h. During this time, in a separate 5 L jacketed reactor equipped with a mechanical stirrer and temperature probe were added toluene (600 mL), aqueous sodium carbonate (185.7 g, 1.75 mol in 1.6 L water), and 2-(4,6-dimethyl-pyrimidin-2-yl)-octahydro-pyrrolo[3,4-c]pyrrole·HOAc (Intermediate 23, 122 g, 438 mmol). This biphasic mixture was cooled to 0 °C. After cooling to 0 °C, the original slurry was poured through a filter and over the stirring biphasic mixture of amine and aqueous sodium carbonate. The mixture was allowed to warm to room temperature. After 2 h, additional 2-(4,6-dimethyl-pyrimidin-2-yl)-octahydro-pyrrolo[3,4-c]pyrrole·HOAc (4 g, 14 mmol) was added and the mixture was stirred for 30 additional minutes. At the end of this period, the layers were separated and 100 mL of methanol were added to the organic layer. The organic layer was dried over $MgSO_4$, filtered, and concentrated to a white solid. This solid was taken up in ethanol (1.4 L) and warmed to 77 °C. The mixture was then cooled to 55 °C and seeded with previously crystallized material. (Note: The seeds were generated from slurrying the initial product in 2-propanol at room temperature [100 mg/mL]). The mixture was cooled to room temperature at a rate of 5 °C per hour. After stirring at room temperature for 14 h, the mixture was filtered and dried to provide the final product as a white crystalline solid (136.84 g, 74%). ^1H NMR (400 MHz, $CDCl_3$): 7.88 - 7.78 (m, 1.78H), 7.75 - 7.69 (s, 1.22H), 7.51 - 7.43 (m, 1 H), 7.17 - 7.11 (m, 1 H), 6.30 - 6.28 (m, 1 H), 4.03 - 3.48 (m, 7H), 3.29 - 3.21 (m, 1 H), 3.15 - 2.92 (m, 2H), 2.30 (s, 6H). MS (ESI) mass calcd for $C_{21}H_{22}FN_7O$, 407.19; m/z found, 408 $[M+H]^+$. Anal. calcd. for $C_{21}H_{22}FN_7O$ C, 61.90, H, 5.44, N, 24.06; found C, 61.83, H, 5.42, N, 24.08.

Method B:

[0575] Step A: A one-piece EasyMax reactor was equipped with a mechanical stirred, a temperature probe, a reflux condenser and an NaOH scrubber. To the reactor was added 2-fluoro-6-triazol-2-yl benzoic acid (15.01 g, 72.5 mmol) and toluene (150.0 g), N, N dimethylformamide (0.06 g, 0.26 mmol) was then added, the reaction was held at 20 °C prior to the addition of thionyl chloride (11.31 g, 94.1 mmol) via syringe pump. The reaction mixture was then heated to 50 °C over 15 minutes and then was stirred at that temperature for 1.5 hours. The mixture was then heated to 55 °C and 20.4 g of solvent were distilled in vacuo to give 139.4 g of acid chloride solution which was used as is in Step C below.

[0576] Step B. In a 500 mL jacketed reactor equipped with a mechanical stirrer, thermometer and reflux condenser

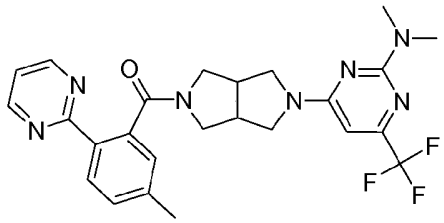
was charged with 2-(4,6-dimethylpyrimidin-2-yl)octahydropyrrolo[3,4-c]pyrrole, bis-HCl salt (21.01 g, 72.1 mmol) and toluene (60.1 g) and the slurry was stirred at 0 °C. Sodium carbonate (30.6 g, 288.7 mmol) was then separately dissolved in water (151.5 g) and then added to the slurry over 15 minutes to give the crude amine solution which was used directly in Step C.

[0577] Step C. To the crude amine solution from Step B in a 500 mL reactor held at 0 °C was added the crude acid chloride solution from Step 1 and the reaction was held at 0 °C for another 15 minutes, then heated to 30 °C over 30 minutes. During this time the product started to precipitate and the aqueous layer formed a slurry. The reaction was then cooled to 20 °C over 30 minutes and stirred at this temperature overnight. The mixture was then heated to 75 °C over 40 minutes and stirred for 35 minutes. Stirring was then stopped and after 30 minutes the aqueous layer was removed. To the organic layer was then added water (90.0 g) and the mixture was stirred for 20 minutes at 75 °C, then the stirrer was again stopped. After 10 minutes the aqueous layer was removed. To the remaining organic layer was added water (90.0 g) and the mixture was again stirred at 75 °C for 15 minutes, before the stirrer was again stopped, and after 10 minutes the aqueous layer was again removed. Distillation of the remaining toluene solution was then performed (at 75 °C, 350 mbar) to remove 70 mL of solvent. The remaining solution was then cooled to 50 °C, and stirred for 20 minutes prior to the addition of Example 107 (0.04g, seed crystals to start the crystallization). The reaction was then stirred at 50 °C for 1.5 hour, then the thin suspension was cooled to 30 °C over 1 hour then cooled to 0 °C over 1 hour. After 90 minutes the product was isolated by suction filtration, the filter cake was washed with cyclohexane (75 g), then washed with water (85.0 g) and the wet product cake was dried in vacuo at 55 °C overnight to give the title compound (25.21 g, 83%), Purity was assessed by HPLC (99.3%, 99.6%, and 99.3 area% (at 254, 235, and 280 nm, respectively).

[0578] Step D: The product of Step C (20.0 g, 48.9 mmol) was added to a one-piece EasyMax reactor and activated charcoal (Norit CN1, 2.00 g), ethanol (120.0 g) and 2-propanol (20.0 g) were then added. The mixture was heated to 85 °C over 30 minutes, then stirred for 45 minutes, then cooled to 75 °C over 15 minutes. The mixture was then filtered via a glass fiber filter, the filter was washed with 2-propanol (20.0 g) that was previously heated to 70 °C, The filtrates were then placed into a 500 mL jacketed reactor equipped with a mechanical stirrer, reflux condenser and thermometer and heated to 85 °C, stirred for 5 minutes, cooled to 55 °C over 20 minutes and after 10 minutes at 55 °C a suspension of Example 107 (0.02 g) in 2-propanol (0.20 g) was added. The resulting thin suspension was stirred at 55 °C for 1 hour, then was cooled to 45 over 1 hour and stirred for 30 minutes before it was cooled to 0 °C over 3 hours and was stirred at that temperature overnight. After 13 hours, the product was isolated by suction filtration, the filter cake was washed via the reactor with 2-propanol (40.0 g, at 10 °C) to provide the wet product cake which was dried in vacuo at 60 °C overnight to give the title compound (18.18 g, 91.3%) as a white to off-white crystalline solid. Purity was assessed by HPLC (99.7%, 99.8%, and 99.6 area% (at 254, 235, and 280 nm, respectively). Assays for residual solvents showed the following: ethanol 1089 ppm, 2-propanol 348 ppm, toluene 202 ppm, cyclohexane <20 ppm.

Example 108: N,N-Dimethyl-4-{5-[(5-methyl-2-pyrimidin-2-ylphenyl)carbonyl]hexahydropyrrolo [3,4-c]pyrrol-2(1 H)-yl}-6-(trifluoromethyl)pyrimidin-2-amine.

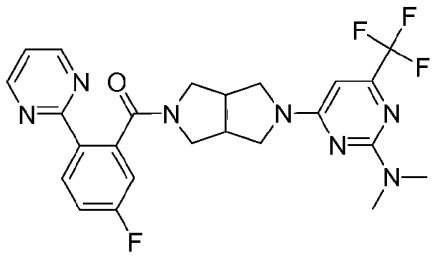
[0579]



[0580] The title compound was prepared in a manner analogous to Example 15 utilizing Intermediate 36 and 5-methyl-2-pyrimidin-2-yl-benzoic acid. MS (ESI): mass calculated for $C_{25}H_{26}F_3N_7O$, 497.53; m/z found 498.0 $[M+H]^+$. ^1H NMR (400 MHz, $CDCl_3$): 8.67 (dd, *J* = 20.0, 4.9, 2H), 8.20 (d, *J* = 10.1, 1H), 7.34 - 7.30 (m, 1 H), 7.19 - 7.15 (m, 1 H), 7.13 - 7.03 (m, 1 H), 5.85 (br s, 1 H), 3.98 - 2.83 (m, 16H), 2.42 (s, 3H).

Example 109: 4-{5-[(5-Fluoro-2-pyrimidin-2-ylphenyl)carbonyl]hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl}-N,N-dimethyl-6-(trifluoromethyl)pyrimidin-2-amine.

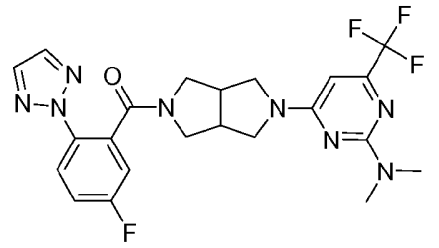
[0581]



[0582] The title compound was prepared in a manner analogous to Example 15 utilizing Intermediate 36 and Intermediate 13. MS (ESI): mass calculated for $C_{24}H_{23}F_4N_7O$, 501.49; m/z found 502.0 $[M+H]^+$. ^1H NMR (400 MHz, $CDCl_3$): 8.70 (d, J = 4.9, 2H), 8.38 - 8.31 (m, 1 H), 7.24 - 7.17 (m, 1 H), 7.14 - 7.02 (m, 2H), 5.86 (br s, 1 H), 4.06 - 2.78 (m, 16H).

Example 110: 4-[5-{[5-Fluoro-2-(2H-1,2,3-triazol-2-yl)phenyl]carbonyl}hexahydropyrrolo[3,4-c]pyrrol-2(1 H)-yl]-N,N-dimethyl-6-(trifluoromethyl)pyrimidin-2-amine.

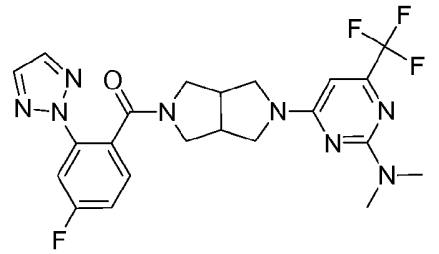
[0583]



[0584] The title compound was prepared in a manner analogous to Example 15 utilizing Intermediate 36 and Intermediate 1. MS (ESI): mass calculated for $C_{22}H_{22}F_4N_8O$, 490.46; m/z found 490.9 $[M+H]^+$. ^1H NMR (400 MHz, $CDCl_3$): 8.00 - 7.92 (m, 1 H), 7.78 - 7.64 (m, 2H), 7.26 - 7.20 (m, 1 H), 7.17 - 7.11 (m, 1 H), 5.87 (br s, 1 H), 3.96 - 2.87 (m, 16H).

Example 111: [5-(2-Dimethylamino-6-trifluoromethyl-pyrimidin-4-yl)-hexahydro-pyrrolo[3,4-c]pyrrol-2-yl]-(4-fluoro-2-[1,2,3]triazol-2-yl-phenyl)-methanone.

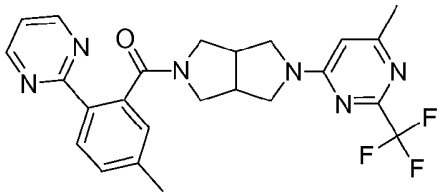
[0585]



[0586] The title compound was prepared in a manner analogous to Example 15 utilizing Intermediate 36 and Intermediate 4. MS (ESI): mass calculated for $C_{22}H_{22}F_4N_8O$, 490.46; m/z found 490.9 $[M+H]^+$. ^1H NMR (400 MHz, $CDCl_3$): 7.84 - 7.64 (m, 3H), 7.45 - 7.36 (m, 1 H), 7.20 - 7.07 (m, 1 H), 5.87 (br s, 1 H), 4.04 - 2.79 (m, 16H).

Example 112: 2-[(5-Methyl-2-pyrimidin-2-ylphenyl)carbonyl]-5-[6-methyl-2-(trifluoromethyl) pyrimidin-4-yl]octahydropyrrolo[3,4-c]pyrrole.

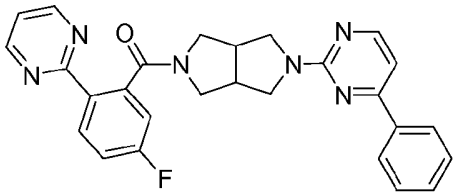
[0587]



[0588] The title compound was prepared in a manner analogous to Example 15 utilizing Intermediate 31 and 5-methyl-2-pyrimidin-2-yl-benzoic acid. MS (ESI): mass calculated for $C_{24}H_{23}F_3N_6O$, 468.48; m/z found 469.2 $[M+H]^+$. ^1H NMR (400 MHz, $CDCl_3$): 8.80 - 8.68 (m, 2H), 8.27 - 8.13 (m, 1 H), 7.35 - 7.29 (m, 1 H), 7.20 - 7.03 (m, 2H), 6.31 - 6.04 (m, 1 H), 4.15 - 2.80 (m, 10H), 2.56 - 2.30 (m, 6H).

Example 113: 2-[(5-Fluoro-2-pyrimidin-2-ylphenyl)carbonyl]-5-(4-phenylpyrimidin-2-yl)octahydropyrrolo[3,4-c]pyrrole.

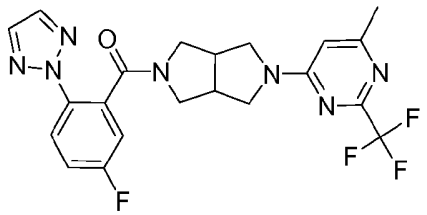
[0589]



[0590] The title compound was prepared in a manner analogous to Example 15 utilizing Intermediate 26 and Intermediate 13. MS (ESI): mass calculated for $C_{27}H_{23}FN_6O$, 466.52; m/z found 467.2 $[M+H]^+$. ^1H NMR (400 MHz, $CDCl_3$): 8.72 - 8.66 (m, 2H), 8.44 - 8.29 (m, 2H), 8.16 - 8.02 (m, 2H), 7.53 - 7.45 (m, 3H), 7.21 - 7.14 (m, 1 H), 7.10 - 7.06 (m, 1 H), 7.01 - 6.98 (m, 1 H), 6.87 (br s, 1 H), 4.05 - 3.50 (m, 7H), 3.31 - 2.98 (m, 3H).

Example 114: 2-{[5-Fluoro-2-(2H-1,2,3-triazol-2-yl)phenyl]carbonyl}-5-[6-methyl-2-(trifluoromethyl)pyrimidin-4-yl]octahydropyrrolo[3,4-c]pyrrole.

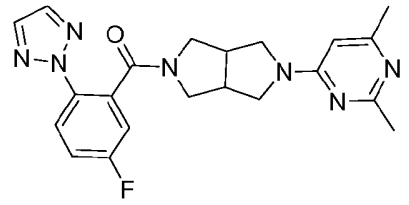
[0591]



[0592] The title compound was prepared in a manner analogous to Example 15 utilizing Intermediate 21 and 4-chloro-6-methyl-2-trifluoromethyl-pyrimidine. MS (ESI): mass calculated for $C_{21}H_{19}F_4N_7O$, 461.42; m/z found 462.2 $[M+H]^+$. ^1H NMR (400 MHz, $CDCl_3$): 8.04 - 7.87 (m, 1 H), 7.81 - 7.63 (m, 1 H), 7.29 - 7.18 (m, 1 H), 7.17 - 7.08 (m, 1 H), 6.31 - 6.03 (m, 1 H), 4.13 - 2.84 (m, 10H), 2.44 (s, 3H).

Example 115: [5-(2,6-Dimethyl-pyrimidin-4-yl)-hexahydro-pyrrolo[3,4-c]pyrrol-2-yl]-(5-fluoro-2-[1,2,3]triazol-2-yl-phenyl)-methanone.

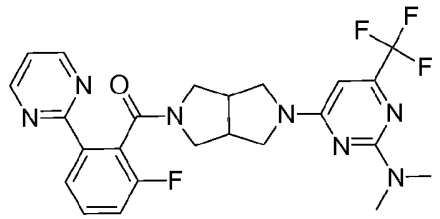
[0593]



[0594] The title compound was prepared in a manner analogous to Example 15 utilizing Intermediate 21 and 4-chloro-2,6-dimethyl-pyrimidine. MS (ESI): mass calculated for $C_{21}H_{22}FN_7O$, 407.45, m/z found 408.2 $[M+H]^+$. ^1H NMR ($CDCl_3$) 7.97 (dd, J = 9.0, 4.8 Hz, 1 H), 7.73 (s, 2H), 7.25 - 7.19 (m, 1 H), 7.16 - 7.10 (m, 1 H), 5.94 (s, 1 H), 3.95 - 2.88 (m, 10H), 2.50 (s, 3H), 2.34 (s, 3H).

Example 116: 4-{5-[(2-Fluoro-6-pyrimidin-2-ylphenyl)carbonyl]hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl}-N,N-dimethyl-6-(trifluoromethyl)pyrimidin-2-amine.

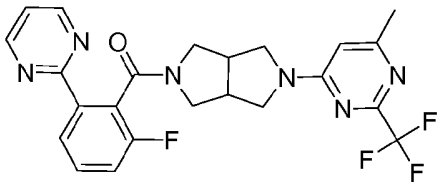
[0595]



[0596] The title compound was prepared in a manner analogous to Example 15 utilizing Intermediate 36 and Intermediate 14. MS (ESI): mass calculated for $C_{24}H_{23}F_4N_7O$, 501.49; m/z found 502.0 $[M+H]^+$. ^1H NMR (400 MHz, $CDCl_3$): 8.86 - 8.63 (m, 2H), 8.22 - 8.05 (m, 1 H), 7.56 - 7.40 (m, 1 H), 7.29 - 7.18 (m, 1 H), 7.12 (br s, 1 H), 6.03 - 5.73 (m, 1 H), 4.19 - 2.90 (m, 16H).

Example 117: 2-[(2-Fluoro-6-pyrimidin-2-ylphenyl)carbonyl]-5-[6-methyl-2-(trifluoromethyl) pyrimidin-4-yl]octahydropyrrolo[3,4-c]pyrrole.

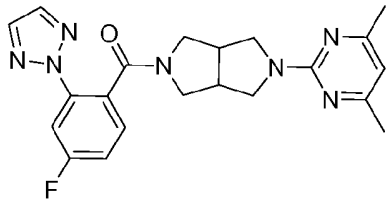
[0597]



[0598] The title compound was prepared in a manner analogous to Example 15 utilizing Intermediate 31 and Intermediate 14. MS (ESI): mass calculated for $C_{23}H_{20}F_4N_6O$, 472.45; m/z found 473.2 $[M+H]^+$. ^1H NMR (400 MHz, $CDCl_3$): 8.81 - 8.72 (m, 2H), 8.21 - 8.01 (m, 1 H), 7.54 - 7.42 (m, 1 H), 7.27 - 7.20 (m, 1 H), 7.18 - 7.10 (m, 1 H), 6.36 - 6.04 (m, 1 H), 4.19 - 2.93 (m, 10H), 2.60 - 2.29 (m, 3H).

Example 118: 2-(4,6-Dimethylpyrimidin-2-yl)-5-{[4-fluoro-2-(2H-1,2,3-triazol-2-yl)phenyl]carbonyl}octahydropyrrolo[3,4-c]pyrrole.

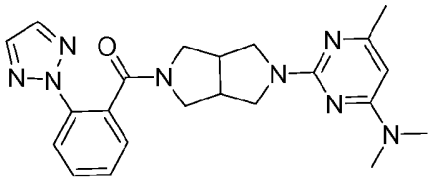
[0599]



[0600] The title compound was prepared in a manner analogous to Example 15 utilizing Intermediate 23 and Intermediate 1. MS (ESI): mass calculated for $C_{21}H_{22}FN_7O$, 408.45; m/z found 408.2 $[M+H]^+$. ^1H NMR (400 MHz, $CDCl_3$): 7.81 - 7.69 (m, 3H), 7.43 - 7.36 (m, 1 H), 7.16 - 7.08 (m, 1 H), 6.30 (s, 1 H), 3.93 - 3.81 (m, 2H), 3.75 - 3.56 (m, 3H), 3.52 - 3.30 (m, 2H), 3.10 - 2.87 (m, 3H), 2.30 (s, 6H).

Example 119: N,N,6-Trimethyl-2-[5-{[2-(2H-1,2,3-triazol-2-yl)phenyl]carbonyl}hexahydro pyrrolo[3,4-c]pyrrol-2(1H)-yl]pyrimidin-4-amine.

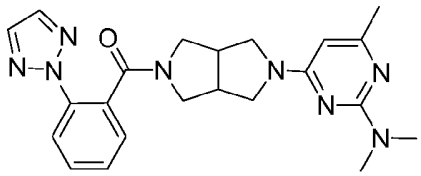
[0601]



[0602] The title compound was prepared in a manner analogous to Example 15 utilizing Intermediate 20 and (2-chloro-6-methyl-pyrimidin-4-yl)-dimethyl-amine. MS (ESI): mass calculated for $C_{22}H_{26}N_8O$, 418.50; m/z found 419.2 $[M+H]^+$. ^1H NMR (400 MHz, $CDCl_3$): 8.02 - 7.94 (m, 1 H), 7.75 (s, 2H), 7.56 - 7.46 (m, 1 H), 7.44 - 7.36 (m, 2H), 5.69 (s, 1 H), 3.92 - 3.81 (m, 2H), 3.76 - 3.62 (m, 2H), 3.60 - 3.52 (m, 1 H), 3.50 - 3.42 (m, 1 H), 3.40 - 3.29 (m, 1 H), 3.04 (s, 6H), 3.01 - 2.80 (m, 3H), 2.24 (s, 3H).

Example 120: N,N,4-Trimethyl-6-[5-{[2-(2H-1,2,3-triazol-2-yl)phenyl]carbonyl}hexahydro pyrrolo[3,4-c]pyrrol-2(1H)-yl]pyrimidin-2-amine.

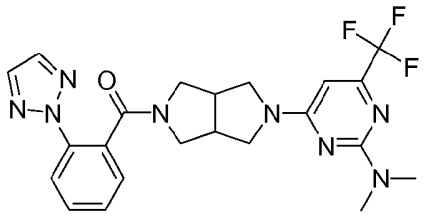
[0603]



[0604] The title compound was prepared in a manner analogous to Example 15 utilizing Intermediate 20 and (4-chloro-6-methyl-pyrimidin-2-yl)-dimethyl-amine. MS (ESI): mass calculated for $C_{22}H_{26}N_8O$, 418.50; m/z found 419.2 $[M+H]^+$. ^1H NMR (400 MHz, $CDCl_3$): 8.01 - 7.95 (m, 1 H), 7.80 - 7.65 (m, 2H), 7.57 - 7.48 (m, 1 H), 7.45 - 7.35 (m, 2H), 5.51 - 5.39 (m, 1 H), 3.91 - 2.85 (m, 19H).

Example 121: N,N-Dimethyl-4-[5-{[2-(2H-1,2,3-triazol-2-yl)phenyl]carbonyl}hexahydropyrrolo [3,4-c]pyrrol-2(1H)-yl]-6-(trifluoromethyl)pyrimidin-2-amine.

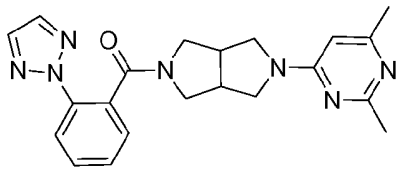
[0605]



[0606] The title compound was prepared in a manner analogous to Example 15 utilizing Intermediate 20 and (4-chloro-6-trifluoromethyl-pyrimidin-2-yl)-dimethyl-amine. MS (ESI): mass calculated for $C_{22}H_{23}F_3N_8O$, 472.47; m/z found 473.2 $[M+H]^+$. ^1H NMR (400 MHz, $CDCl_3$: 8.02 - 7.95 (m, 1 H), 7.73 (s, 2H), 7.57 - 7.50 (m, 1 H), 7.46 - 7.39 (m, 2H), 5.97 - 5.75 (m, 1 H), 3.99 - 2.80 (m, 16H).

Example 122: 2-(2,6-Dimethylpyrimidin-4-yl)-5-{[2-(2H-1,2,3-triazol-2-yl)phenyl]carbonyl}octahydropyrrolo[3,4-c]pyrrole.

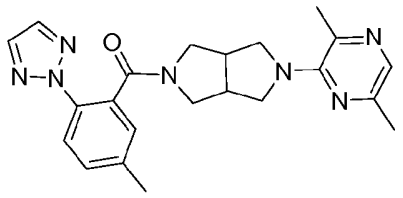
[0607]



[0608] The title compound was prepared in a manner analogous to Example 15 utilizing Intermediate 20 and 4-chloro-2,6-dimethyl-pyrimidine. MS (ESI): mass calculated for $C_{21}H_{23}N_7O$, 408.45; m/z found 389.46 $[M+H]^+$; m/z found 390.2 $[M+H]^+$. ^1H NMR (400 MHz, $CDCl_3$): 8.01 - 7.95 (m, 1 H), 7.74 (s, 2H), 7.56 - 7.37 (m, 3H), 6.01 - 5.85 (m, 1 H), 3.99 - 2.86 (m, 10H), 2.50 (s, 3H), 2.34 (s, 3H).

Example 123: [5-(3,6-Dimethyl-pyrazin-2-yl)-hexahydro-pyrrolo[3,4-c]pyrrol-2-yl]-(5-methyl-2-[1,2,3]triazol-2-yl-phenyl)-methanone.

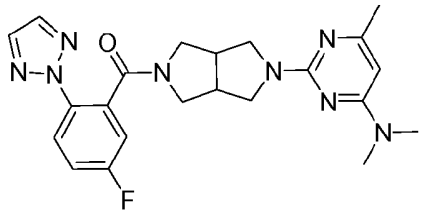
[0609]



[0610] The title compound was prepared in a manner analogous to Example 15 utilizing Intermediate 19 and 3-chloro-2,5-dimethyl-pyrazine. MS (ESI): mass calculated for $C_{22}H_{25}N_7O$ 413.49, m/z found 404.2 $[M+H]^+$. ^1H NMR ($CDCl_3$) 7.85 (d, J = 8.3 Hz, 1 H), 7.78-7.70 (m, 3H), 7.35 - 7.29 (m, 1 H), 7.25 - 7.21 (m, 1 H), 3.92 - 3.85 (m, 1 H), 3.80 - 3.72 (m, 1 H), 3.70 - 3.59 (m, 2H), 3.53 - 3.47 (m, 1 H), 3.45 - 3.23 (m, 1 H), 3.04 - 2.78 (m, 4H), 2.50 (s, 3H), 2.42 (s, 3H), 2.36 (s, 3H).

Example 124: 2-[5-{[5-Fluoro-2-(2H-1,2,3-triazol-2-yl)phenyl]carbonyl}hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl]-N,N,6-trimethylpyrimidin-4-amine.

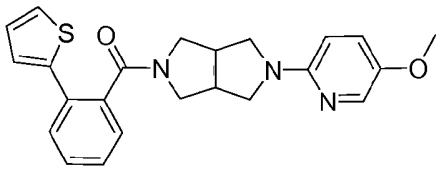
[0611]



[0612] The title compound was prepared in a manner analogous to Example 15 utilizing Intermediate 21 and (2-chloro-6-methyl-pyrimidin-4-yl)-dimethyl-amine. MS (ESI): mass calculated for $C_{22}H_{25}FN_8O$, 435.49; m/z found 437.3 $[M+H]^+$. ^1H NMR (400 MHz, $CDCl_3$): 7.99 - 7.93 (m, 1 H), 7.73 (s, 2H), 7.23 - 7.18 (m, 1 H), 7.15 - 7.12 (m, 1 H), 5.69 (s, 1 H), 3.88 - 3.80 (m, 2H), 3.71 - 3.62 (m, 2H), 3.59 - 3.52 (m, 1 H), 3.49 - 3.32 (m, 2H), 3.15 - 2.83 (m, 9H), 2.24 (s, 3H).

Example 125: 2-(5-Methoxypyridin-2-yl)-5-[(2-thiophen-2-ylphenyl)carbonyl]octahydropyrrolo [3,4-c]pyrrole.

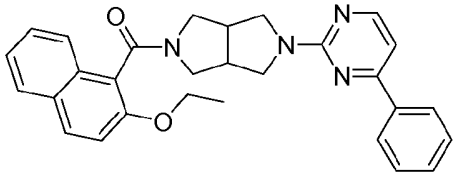
[0613]



[0614] The title compound was prepared in a manner analogous to Example 15 utilizing Intermediate 37 and 2-chloro-5-methoxy-pyridine. MS (ESI): mass calculated for $C_{23}H_{23}N_3O_2S$, 405.52; m/z found 406.2 $[M+H]^+$. ^1H NMR (400 MHz, $CDCl_3$): 7.88 (d, J = 2.7, 1 H), 7.54 - 7.47 (m, 1 H), 7.45 - 7.31 (m, 4H), 7.25 - 7.19 (m, 1 H), 7.18 - 7.12 (m, 1 H), 7.06 - 6.88 (m, 1 H), 6.30 - 6.13 (m, 1 H), 3.94 - 2.47 (m, 13H).

Example 126: 2-[(2-Ethoxynaphthalen-1-yl)carbonyl]-5-(4-phenylpyrimidin-2-yl)octahydro pyrrolo[3,4-c]pyrrole.

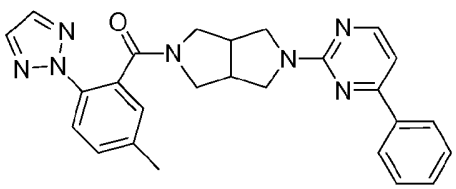
[0615]



[0616] The title compound was prepared in a manner analogous to Example 15 utilizing Intermediate 26 and 2-ethoxy-naphthalene-1-carboxylic acid. MS (ESI): mass calculated for $C_{29}H_{28}N_4O_2$, 464.57; m/z found 465.2 $[M+H]^+$. ^1H NMR (400 MHz, $CDCl_3$): 8.42 - 8.33 (m, 1 H), 8.14 - 7.98 (m, 2H), 7.89 - 7.61 (m, 3H), 7.53 - 7.43 (m, 3H), 7.41 - 7.18 (m, 3H), 7.01 - 6.95 (m, 1H), 4.31 - 2.91 (m, 12H), 1.49 - 1.23 (m, 3H).

Example 127: 2-{[5-Methyl-2-(2H-1,2,3-triazol-2-yl)phenyl]carbonyl}-5-(4-phenylpyrimidin-2-yl)octahydropyrrolo[3,4-c]pyrrole.

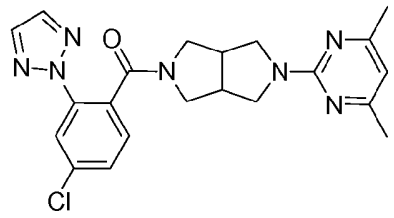
[0617]



[0618] The title compound was prepared in a manner analogous to Example 15 utilizing Intermediate 19 and 2-chloro-4-phenyl-pyrimidine. MS (ESI): mass calculated for $C_{26}H_{25}N_7O$ 451.53; m/z found 452.2 $[M+H]^+$. ^1H NMR (400 MHz, $CDCl_3$): 8.43 - 8.32 (m, 1 H), 8.15 - 7.99 (m, 2H), 7.88 - 7.80 (m, 1 H), 7.78 - 7.57 (m, 2H), 7.55 - 7.39 (m, 3H), 7.34 - 7.28 (m, 1 H), 7.25 - 7.21 (m, 1 H), 7.01 - 6.96 (m, 1 H), 4.09 - 2.87 (m, 10H), 2.41 (s, 3H).

Example 128: (4-Chloro-2-[1,2,3]triazol-2-yl-phenyl)-[5-(4,6-dimethyl-pyrimidin-2-yl)-hexahydro-pyrrolo[3,4-c]pyrrol-2-yl]-methanone.

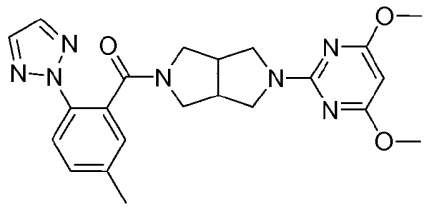
[0619]



[0620] The title compound was prepared in a manner analogous to Example 15 utilizing Intermediate 6 and 2-chloro-4,6-dimethylpyrimidine. MS (ESI): mass calculated for $C_{21}H_{22}ClN_7O$, 423.91; m/z found 424.2 $[M+H]^+$. ^1H NMR (400 MHz, $CDCl_3$): 8.03 (t, *J* = 10.1 Hz, 1 H), 7.76 (s, 2H), 7.41 - 7.29 (m, 2H), 6.30 (s, 1 H), 3.92 - 3.79 (m, 2H), 3.74-3.58 (m, 3H), 3.53 - 3.29 (m, 2H), 3.10 - 2.86 (m, 3H), 2.30 (s, 6H).

Example 129: 2-(4,6-Dimethoxypyrimidin-2-yl)-5-{[5-methyl-2-(2H-1,2,3-triazol-2-yl)phenyl]carbonyl}octahydropyrrolo[3,4-c]pyrrole.

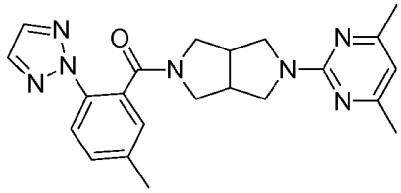
[0621]



[0622] The title compound was prepared in a manner analogous to Example 15 utilizing Intermediate 19 and 2-chloro-4,6-dimethoxypyrimidine. MS (ESI): mass calculated for $C_{22}H_{25}N_7O_3$, 435.49; m/z found 436.2 $[M+H]^+$. ^1H NMR (400 MHz, $CDCl_3$): 7.85 (d, *J* = 8.3, 1 H), 7.72 (s, 2H), 7.34 - 7.29 (m, 1 H), 7.24 - 7.21 (m, 1 H), 5.39 (s, 1 H), 3.99 - 3.60 (m, 10H), 3.57 - 3.27 (m, 3H), 3.08 - 2.82 (m, 3H), 2.41 (s, 3H).

Example 130: 2-(4,6-Dimethylpyrimidin-2-yl)-5-{[5-methyl-2-(2H-1,2,3-triazol-2-yl)phenyl]carbonyl}octahydropyrrolo[3,4-c]pyrrole.

[0623]

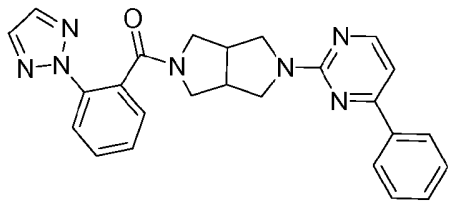


[0624] The title compound was prepared in a manner analogous to Example 15 utilizing Intermediate 19 and 2-chloro-4,6-dimethylpyrimidine. MS (ESI): mass calculated for $C_{22}H_{25}N_7O$ 403.49; m/z found 404.2 $[M+H]^+$. ^1H NMR (400 MHz, $CDCl_3$): 7.84 (d, *J* = 8.3, 1 H), 7.72 (br s, 2H), 7.33 - 7.29 (m, 1 H), 7.23 - 7.20 (m, 1 H), 6.29 (s, 1 H), 3.91 - 3.80 (m,

2H), 3.73 - 3.54 (m, 3H), 3.50 - 3.24 (m, 2H), 3.07 - 2.81 (m, 3H), 2.40 (s, 3H), 2.29 (s, 6H).

Example 131: 2-(4-Phenylpyrimidin-2-yl)-5-{[2-(2H-1,2,3-triazol-2-yl)phenyl]carbonyl}octahydro pyrrolo[3,4-c]pyrrole.

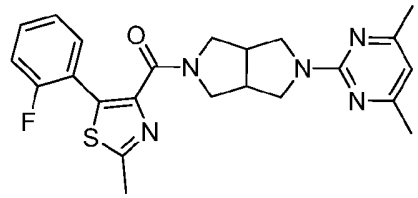
[0625]



[0626] The title compound was prepared in a manner analogous to Example 15 utilizing Intermediate 26 and Intermediate 2. MS (ESI): mass calculated for $C_{25}H_{23}N_7O$, 437.50; m/z found 438.2 $[M+H]^+$. ^1H NMR (400 MHz, $CDCl_3$): 8.46 - 8.31 (m, 1 H), 8.21 - 7.91 (m, 3H), 7.82 - 7.59 (m, 2H), 7.58 - 7.39 (m, 6H), 7.01 - 6.97 (m, 1 H), 4.04 - 3.31 (m, 7H), 3.17 - 2.86 (m, 3H).

Example 132: 2-(4,6-Dimethylpyrimidin-2-yl)-5-{[5-(2-fluorophenyl)-2-methyl-1,3-thiazol-4-yl]carbonyl}octahydropyrrolo[3,4-c]pyrrole.

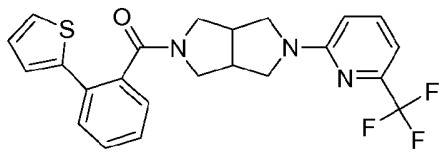
[0627]



[0628] The title compound was prepared in a manner analogous to Example 15 utilizing Intermediate 18 and 2-chloro-4,6-dimethylpyrimidine. MS (ESI): mass calculated for $C_{23}H_{24}FN_5OS$, 437.54; m/z found 438.2 $[M+H]^+$. ^1H NMR (400 MHz, $CDCl_3$): 7.50 - 7.44 (m, 1 H), 7.32 - 7.23 (m, 1 H), 7.16 - 7.04 (m, 2H), 6.29 (s, 1 H), 3.93 - 3.80 (m, 2H), 3.76 - 3.67 (m, 2H), 3.61 - 3.54 (m, 1 H), 3.51 - 3.37 (m, 2H), 3.29 - 3.22 (m, 1 H), 3.03 - 2.87 (m, 2H), 2.73 (s, 3H), 2.30 (s, 6H).

Example 133: 2-[(2-Thiophen-2-ylphenyl)carbonyl]-5-[6-(trifluoromethyl)pyridin-2-yl]octahydro pyrrolo[3,4-c]pyrrole.

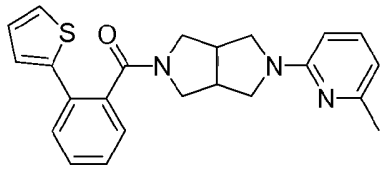
[0629]



[0630] The title compound was prepared in a manner analogous to Example 15 utilizing Intermediate 37 and 2-chloro-6-trifluoromethyl-pyridine. MS (ESI): mass calculated for $C_{23}H_{20}F_3N_3OS$, 443.49; m/z found 444.1 $[M+H]^+$. ^1H NMR (400 MHz, $CDCl_3$): 7.62 - 7.33 (m, 5H), 7.29 - 7.05 (m, 2H), 7.04 - 6.80 (m, 2H), 6.37 (s, 1 H), 4.01 - 2.47 (m, 10H).

Example 134: 2-(6-Methylpyridin-2-yl)-5-[(2-thiophen-2-ylphenyl)carbonyl]octahydropyrrolo[3,4-c]pyrrole.

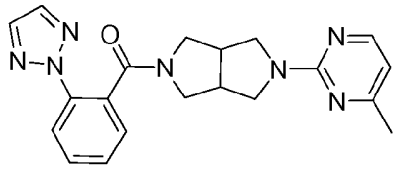
[0631]



[0632] The title compound was prepared in a manner analogous to Example 15 utilizing Intermediate 37 and 2-chloro-6-methyl-pyridine. MS (ESI): mass calculated for $C_{23}H_{23}N_3OS$, 389.52; m/z found 390.2 $[M+H]^+$. ^1H NMR (400 MHz, $CDCl_3$): 7.56 - 7.47 (m, 1 H), 7.45 - 7.10 (m, 6H), 7.07 - 6.91 (m, 1 H), 6.43 (d, *J* = 7.2, 1 H), 6.04 (s, 1 H), 3.96 - 2.57 (m, 10H), 2.38 (s, 3H).

Example 135: 2-(4-Methylpyrimidin-2-yl)-5-{[2-(2H-1,2,3-triazol-2-yl)phenyl]carbonyl}octahydro pyrrolo[3,4-c]pyrrole.

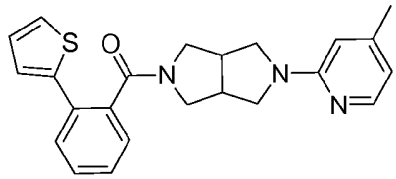
[0633]



[0634] The title compound was prepared in a manner analogous to Example 15 utilizing Intermediate 20 and 2-chloro-4-methyl-pyrimidine. MS (ESI): mass calculated for $C_{20}H_{21}N_7O$, 375.43; m/z found 376.2 $[M+H]^+$. ^1H NMR (400 MHz, $CDCl_3$): 8.17 (d, *J* = 5.0, 1 H), 7.98 (d, *J* = 8.1, 1H), 7.75 (s, 2H), 7.56 - 7.48 (m, 1 H), 7.44 - 7.40 (m, 2H), 6.40 (d, *J* = 5.0, 1 H), 3.94 - 3.81 (m, 2H), 3.75 - 3.54 (m, 3H), 3.52 - 3.31 (m, 2H), 3.10 - 2.88 (m, 3H), 2.35 (s, 3H).

Example 136: 2-(4-Methylpyridin-2-yl)-5-[(2-thiophen-2-ylphenyl)carbonyl]octahydropyrrolo[3,4-c]pyrrole.

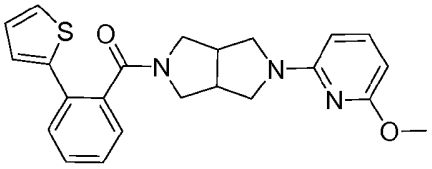
[0635]



[0636] The title compound was prepared in a manner analogous to Example 15 utilizing Intermediate 37 and 2-chloro-4-methyl-pyridine. MS (ESI): mass calculated for $C_{23}H_{23}N_3OS$, 389.52; m/z found 390.2 $[M+H]^+$. ^1H NMR (400 MHz, $CDCl_3$): 8.00 (d, *J* = 5.2, 1 H), 7.56 - 7.47 (m, 1 H), 7.45 - 7.31 (m, 3H), 7.25 - 7.11 (m, 2H), 7.09 - 6.90 (m, 1 H), 6.42 (d, *J* = 5.2, 1 H), 6.06 (br s, 1 H), 3.98 - 2.59 (m, 10H), 2.27 (s, 3H).

Example 137: 2-(6-Methoxypyridin-2-yl)-5-[(2-thiophen-2-ylphenyl)carbonyl]octahydro pyrrolo[3,4-c]pyrrole.

[0637]

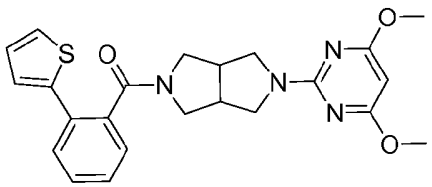


[0638] The title compound was prepared in a manner analogous to Example 15 utilizing Intermediate 37 and 2-chloro-6-methoxy-pyridine. MS (ESI): mass calculated for $C_{23}H_{23}N_3O_2S$, 405.52; m/z found 406.2 $[M+H]^+$. ^1H NMR (400 MHz, $CDCl_3$): 7.56 - 7.47 (m, 1 H), 7.46 - 7.30 (m, 4H), 7.25 - 7.12 (m, 2H), 7.09 - 6.90 (m, 1 H), 6.01 (d, *J* = 7.6, 1 H), 5.77

(br s, 1 H), 3.85 (s, 3H), 3.71 - 2.59 (m, 10H).

Example 138: 2-(4,6-Dimethoxypyrimidin-2-yl)-5-[(2-thiophen-2-ylphenyl)carbonyl]octahydro pyrrolo[3,4-c]pyrrole.

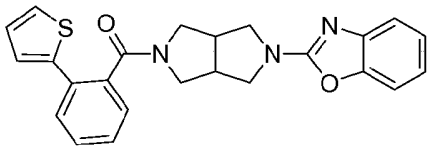
[0639]



[0640] The title compound was prepared in a manner analogous to Example 15 utilizing Intermediate 37 and 2-chloro-4,6-dimethoxy-pyridine. MS (ESI): mass calculated for $C_{23}H_{24}N_4O_3S$, 436.54; m/z found 437.2 $[M+H]^+$. ^1H NMR (400 MHz, $CDCl_3$): 7.52 (d, J = 7.5, 1 H), 7.45 - 7.33 (m, 3H), 7.30 - 7.15 (m, 2H), 7.00 (br s, 1 H), 5.38 (s, 1 H), 3.97 - 2.60 (m, 16H).

Example 139: 2-{5-[(2-Thiophen-2-ylphenyl)carbonyl]hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl}-1,3-benzoxazole.

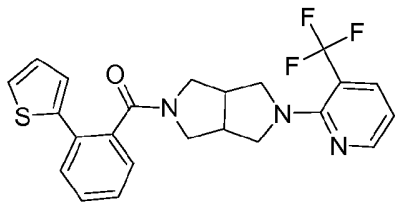
[0641]



[0642] The title compound was prepared in a manner analogous to Example 15 utilizing Intermediate 37 and 2-chloro-benzooxazole. MS (ESI): mass calculated for $C_{24}H_{21}N_3O_2S$, 415.52; m/z found 416.1 $[M+H]^+$. ^1H NMR (400 MHz, $CDCl_3$): 7.83 - 6.68 (m, 11 H), 4.20 - 2.47 (m, 10H).

Example 140: 2-[(2-Thiophen-2-ylphenyl)carbonyl]-5-[3-(trifluoromethyl)pyridin-2-yl]octahydro pyrrolo[3,4-c]pyrrole.

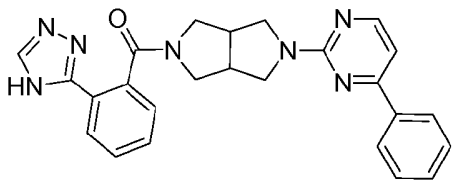
[0643]



[0644] The title compound was prepared in a manner analogous to Example 15 utilizing Intermediate 37 and 2-chloro-3-trifluoromethyl-pyridine. MS (ESI): mass calculated for $C_{23}H_{20}F_3N_3OS$, 443.49; m/z found 444.1 $[M+H]^+$. ^1H NMR (400 MHz, $CDCl_3$): 8.28 (dd, J = 4.7, 1.4, 1 H), 7.79 (dd, J = 7.8, 1.8, 1 H), 7.55 - 7.49 (m, 1 H), 7.46 - 7.33 (m, 3H), 7.30 - 7.19 (m, 2H), 7.01 (br s, 1 H), 6.71 (dd, J = 7.7, 4.7, 1 H), 3.98 - 2.54 (m, 10H).

Example 141: [5-(4-Phenyl-pyrimidin-2-yl)-hexahydro-pyrrolo[3,4-c]pyrrol-2-yl]-[2-(4H-[1,2,4]triazol-3-yl)-phenyl]-methanone.

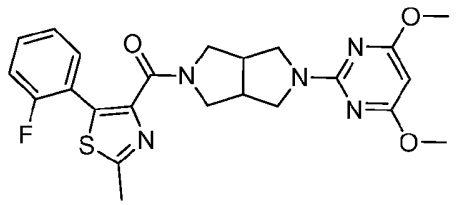
[0645]



[0646] The title compound was prepared in a manner analogous to Example 15 utilizing Intermediate 26 and 2-(4H-[1,2,4]triazol-3-yl)-benzoic acid. MS (ESI): mass calculated for $C_{25}H_{23}N_7O$, 437.50; m/z found 438.2 $[M+H]^+$. ^1H NMR (400 MHz, $CDCl_3$): 12.43 (br s, 1 H), 8.36 (d, *J* = 5.2 Hz, 1 H), 8.14 (d, *J* = 7.5 Hz, 1 H), 8.08-7.91 (m, 3H), 7.60 - 7.42 (m, 5H), 7.39 - 7.31 (m, 1 H), 6.98 (t, *J* = 6.1 Hz, 1 H), 4.01-3.87 (m, 2H), 3.85 - 3.65 (m, 3H), 3.61-3.40 (m, 2H), 3.28 - 2.89 (m, 3H).

Example 142: 2-(4,6-Dimethoxypyrimidin-2-yl)-5-{[5-(2-fluorophenyl)-2-methyl-1,3-thiazol-4-yl]carbonyl}octahydropyrrolo[3,4-c]pyrrole.

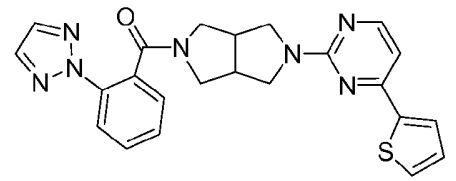
[0647]



[0648] The title compound was prepared in a manner analogous to Example 15 utilizing Intermediate 18 and 2-chloro-4,6-dimethoxypyrimidine. MS (ESI): mass calculated for $C_{23}H_{24}FN_5O_3S$, 469.54; m/z found 470.0 $[M+H]^+$. ^1H NMR (400 MHz, $CDCl_3$): 7.47 (td, *J* = 7.6, 1.7, 1 H), 7.32 - 7.24 (m, 1 H), 7.17 - 7.11 (m, 1 H), 7.10 - 7.03 (m, 1 H), 5.39 (s, 1 H), 3.94 - 3.78 (m, 8H), 3.75 - 3.65 (m, 2H), 3.61 (dd, *J* = 12.8, 4.3, 1 H), 3.45 - 3.35 (m, 2H), 3.24 (dd, *J* = 11.4, 5.4, 1 H), 3.02 - 2.85 (m, 2H), 2.72 (s, 3H).

Example 143: 2-(4-Thiophen-2-ylpyrimidin-2-yl)-5-{[2-(2H-1,2,3-triazol-2-yl)phenyl]carbonyl} octahydropyrrolo[3,4-c]pyrrole.

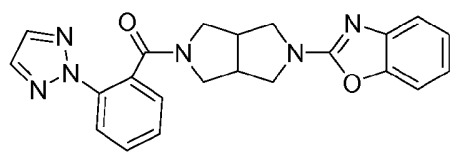
[0649]



[0650] The title compound was prepared in a manner analogous to Example 15 utilizing Intermediate 20 and 2-chloro-4-thiophen-2-yl-pyrimidine. MS (ESI): mass calculated for $C_{23}H_{21}N_7OS$, 443.53; m/z found 444.1 $[M+H]^+$. ^1H NMR (400 MHz, $CDCl_3$): 8.35 - 8.25 (m, 1 H), 7.98 (d, *J* = 8.1, 1 H), 7.80 - 7.63 (m, 3H), 7.56 - 7.38 (m, 4H), 7.18 - 7.09 (m, 1 H), 6.85 (d, *J* = 5.2, 1 H), 4.00 - 3.35 (m, 7H), 3.13 - 2.89 (m, 3H).

Example 144: 2-[5-{[2-(2H-1,2,3-Triazol-2-yl)phenyl]carbonyl}hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl]-1,3-benzoxazole.

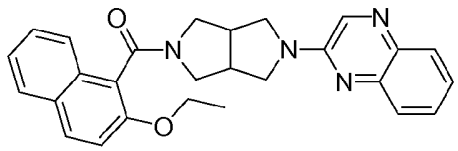
[0651]



[0652] The title compound was prepared in a manner analogous to Example 15 utilizing Intermediate 20 and 2-chlorobenzooxazole. MS (ESI): mass calculated for $C_{22}H_{20}N_6O_2$, 400.44; m/z found 401.2 $[M+H]^+$. ^1H NMR (400 MHz, $CDCl_3$): 7.99 (d, *J* = 8.1, 1 H), 7.74 (s, 2H), 7.57 - 7.49 (m, 1 H), 7.46 - 7.40 (m, 2H), 7.40 - 7.36 (m, 1 H), 7.30 - 7.25 (m, 1 H), 7.21 - 7.15 (m, 1 H), 7.06 - 7.01 (m, 1 H), 4.00 - 3.85 (m, 2H), 3.83 - 3.72 (m, 2H), 3.68 - 3.61 (m, 1 H), 3.59 - 3.41 (m, 2H), 3.19 - 2.97 (m, 3H).

Example 145: 2-{5-[(2-Ethoxynaphthalen-1-yl)carbonyl]hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl}quinoxaline.

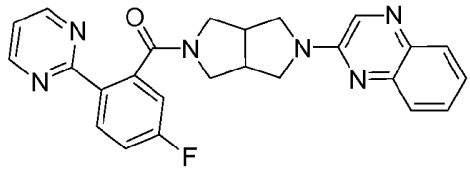
[0653]



[0654] The title compound was prepared in a manner analogous to Example 15 utilizing 2-(hexahydro-pyrrolo[3,4-c]pyrrol-2-yl)-quinoxaline (Intermediate 35) and 2-ethoxy-naphthalene-1-carboxylic acid. MS (ESI): mass calculated for $C_{27}H_{26}N_4O_2$, 438.53; m/z found 439.2 $[M+H]^+$. ^1H NMR (400 MHz, $CDCl_3$): 8.32 (d, *J* = 16.4, 1 H), 7.95 - 7.55 (m, 6H), 7.52 - 7.17 (m, 4H), 4.34 - 2.94 (m, 12H), 1.49 - 1.19 (m, 3H).

Example 146: 2-{5-[(5-Fluoro-2-pyrimidin-2-ylphenyl)carbonyl]hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl}quinoxaline.

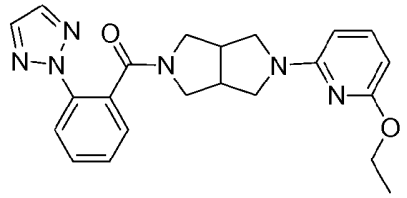
[0655]



[0656] The title compound was prepared in a manner analogous to Example 15 utilizing Intermediate 35 and Intermediate 13. MS (ESI): mass calculated for $C_{25}H_{21}FN_6O$, 440.48; m/z found 441.2 $[M+H]^+$. ^1H NMR (400 MHz, $CDCl_3$): 8.71 (d, *J* = 4.9, 2H), 8.37 - 8.30 (m, 2H), 7.92 - 7.88 (m, 1 H), 7.72 - 7.69 (m, 1 H), 7.63 - 7.57 (m, 1 H), 7.43 - 7.37 (m, 1 H), 7.23 - 7.17 (m, 1 H), 7.11 - 7.05 (m, 2H), 4.03 - 3.93 (m, 2H), 3.87 - 3.70 (m, 3H), 3.67 - 3.56 (m, 2H), 3.26 - 3.03 (m, 3H).

Example 147: 2-(6-Ethoxypyridin-2-yl)-5-{[2-(2H-1,2,3-triazol-2-yl)phenyl]carbonyl}octahydro pyrrolo[3,4-c]pyrrole.

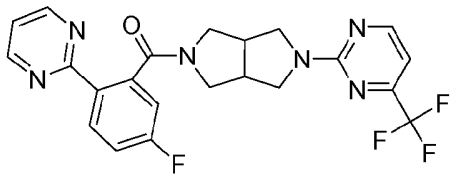
[0657]



[0658] The title compound was prepared in a manner analogous to Example 15 utilizing Intermediate 20 and 2-chloro-6-ethoxypyridine. MS (ESI): mass calculated for $C_{22}H_{24}N_6O_2$ 404.47; m/z found 405.2 $[M+H]^+$. ^1H NMR (400 MHz, $CDCl_3$): 7.98 (d, *J* = 8.1, 1 H), 7.72 (s, 2H), 7.56 - 7.49 (m, 1 H), 7.46 - 7.33 (m, 3H), 6.00 (d, *J* = 7.7, 1 H), 5.83 (d, *J* = 7.9, 1 H), 4.33 - 4.23 (m, 2H), 3.93 - 3.82 (m, 1 H), 3.79 - 3.67 (m, 2H), 3.59 - 3.49 (m, 1 H), 3.47 - 3.33 (m, 2H), 3.32 - 3.25 (m, 1H), 3.11 - 2.86 (m, 3H), 1.38 (t, *J* = 7.1,3H).

Example 148: 2-[(5-Fluoro-2-pyrimidin-2-ylphenyl)carbonyl]-5-[4-(trifluoromethyl)pyrimidin-2-yl]octahydropyrrolo[3,4-c]pyrrole.

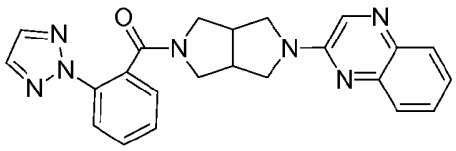
[0659]



[0660] The title compound was prepared in a manner analogous to Example 15 utilizing Intermediate 33 and Intermediate 13. MS (ESI): mass calculated for $C_{22}H_{18}F_4N_6O$, 459.42; m/z found 459.1 $[M+H]^+$. ^1H NMR (400 MHz, $CDCl_3$): 8.74 (d, *J* = 4.9, 2H), 8.60 - 8.28 (m, 2H), 7.23 - 7.04 (m, 3H), 6.84 - 6.75 (m, 1 H), 4.03 - 2.97 (m, 10H).

Example 149: 2-[5-{[2-(2H-1,2,3-Triazol-2-yl)phenyl]carbonyl}hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl]quinoxaline.

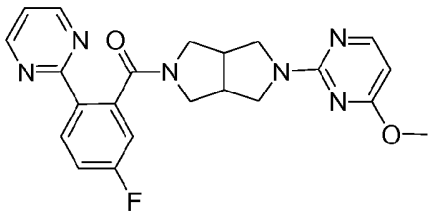
[0661]



[0662] The title compound was prepared in a manner analogous to Example 15 utilizing Intermediate 20 and 2-chloroquinoxaline. MS (ESI): mass calculated for $C_{23}H_{21}N_7O$, 411.47; m/z found 412.2 $[M+H]^+$. ^1H NMR (400 MHz, $CDCl_3$): 8.31 (s, 1 H), 8.01 - 7.95 (m, 1 H), 7.92 - 7.88 (m, 1 H), 7.79 - 7.65 (m, 3H), 7.62 - 7.32 (m, 5H), 4.01 - 3.35 (m, 7H), 3.22 - 2.98 (m, 3H).

Example 150: 2-[(5-Fluoro-2-pyrimidin-2-ylphenyl)carbonyl]-5-(4-methoxypyrimidin-2-yl)octahydropyrrolo[3,4-c]pyrrole.

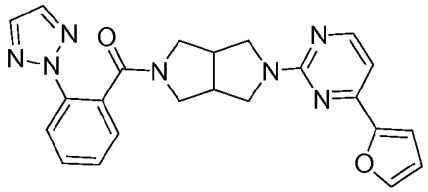
[0663]



[0664] The title compound was prepared in a manner analogous to Example 15 utilizing Intermediate 32 and Intermediate 13. MS (ESI): mass calculated for $C_{22}H_{21}N_6O_2$, 420.45; m/z found 421.2 $[M+H]^+$. ^1H NMR (400 MHz, $CDCl_3$): 8.73 (d, *J* = 4.9, 2H), 8.35 (dd, *J* = 8.8, 5.6, 1 H), 8.06 (d, *J* = 5.7, 1 H), 7.23 - 7.02 (m, 3H), 6.01 (d, *J* = 5.7, 1 H), 4.01 - 3.43 (m, 10H), 3.23 - 2.90 (m, 3H).

Example 151: 2-(4-Furan-2-ylpyrimidin-2-yl)-5-{[2-(2H-1,2,3-triazol-2-yl)phenyl]carbonyl}octahydropyrrolo[3,4-c]pyrrole.

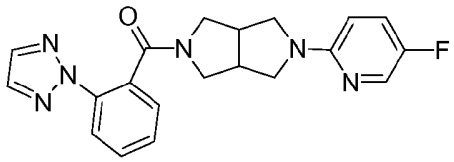
[0665]



[0666] The title compound was prepared in a manner analogous to Example 15 utilizing Intermediate 20 and 2-chloro-4-furan-2-yl-pyrimidine. MS (ESI): mass calculated for $C_{23}H_{21}N_7OS$, 427.47; m/z found 428.2 $[M+H]^+$. ^1H NMR (400 MHz, $CDCl_3$): 8.37 - 8.30 (m, 1 H), 7.98 (d, *J* = 8.1, 1H), 7.80 - 7.37 (m, 6H), 7.20 - 7.11 (m, 1 H), 6.89 (d, *J* = 5.1, 1 H), 6.59 - 6.50 (m, 1 H), 3.99 - 3.30 (m, 7H), 3.12 - 2.91 (m, 3H).

Example 152: 2-(5-Fluoropyridin-2-yl)-5-{[2-(2H-1,2,3-triazol-2-yl)phenyl]carbonyl}octahydro pyrrolo[3,4-c]pyrrole.

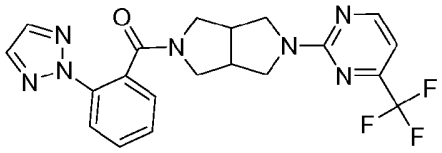
[0667]



[0668] The title compound was prepared in a manner analogous to Example 15 utilizing Intermediate 20 and 2,5-difluoropyridine. MS (ESI): mass calculated for $C_{20}H_{19}FN_6O$, 378.41; m/z found 379.2 $[M+H]^+$. ^1H NMR (400 MHz, $CDCl_3$): 8.03 (d, *J* = 3.0, 1 H), 7.99 (d, *J* = 8.1, 1 H), 7.73 (br s, 2H), 7.58 - 7.37 (m, 3H), 7.30 - 7.18 (m, 1 H), 6.26 (dd, *J* = 9.1, 3.3, 1 H), 3.95 - 3.84 (m, 1 H), 3.77 - 3.24 (m, 6H), 3.13 - 2.89 (m, 3H).

Example 153: 2-{[2-(2H-1,2,3-Triazol-2-yl)phenyl]carbonyl}-5-[4-(trifluoromethyl)pyrimidin-2-yl]octahydropyrrolo[3,4-c]pyrrole.

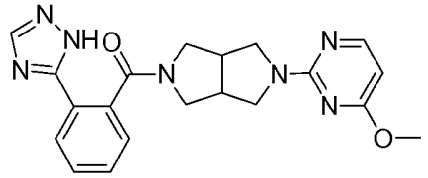
[0669]



[0670] The title compound was prepared in a manner analogous to Example 15 utilizing Intermediate 20 and 2-chloro-4-trifluoromethyl-pyrimidine. MS (ESI): mass calculated for $C_{20}H_{18}F_3N_7O$, 429.40; m/z found 430.1 $[M+H]^+$. ^1H NMR (400 MHz, $CDCl_3$): 8.58 - 8.40 (m, 1 H), 7.99 (d, *J* = 8.1, 1 H), 7.75 (br s, 2H), 7.56 - 7.48 (m, 1 H), 7.45 - 7.39 (m, 2H), 6.80 (d, *J* = 4.9, 1 H), 3.99 - 3.29 (m, 7H), 3.19 - 2.91 (m, 3H).

Example 154: 2-(4-Methoxypyrimidin-2-yl)-5-{[2-(1H-1,2,4-triazol-5-yl)phenyl]carbonyl}octahydropyrrolo[3,4-c]pyrrole.

[0671]

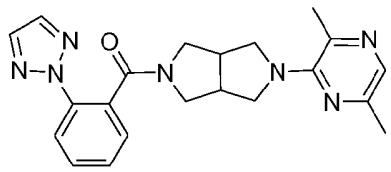


[0672] The title compound was prepared in a manner analogous to Example 15 utilizing Intermediate 32 and 2-(4H-[1,2,4]triazol-3-yl)-benzoic acid. MS (ESI): mass calculated for $C_{20}H_{21}N_7O$, 391.44; m/z found 392.2 $[M+H]^+$. ^1H

NMR (400 MHz, $CDCl_3$): 8.16 - 7.92 (m, 3H), 7.55 - 7.44 (m, 2H), 7.39 - 7.34 (m, 1 H), 6.00 (d, *J* = 5.8, 1 H), 4.02 - 3.33 (m, 10H), 3.20 - 2.83 (m, 4H).

Example 155: 2-(3,6-Dimethylpyrazin-2-yl)-5-{[2-(2H-1,2,3-triazol-2-yl)phenyl]carbonyl}octa hydropyrrolo[3,4-c]pyrrole.

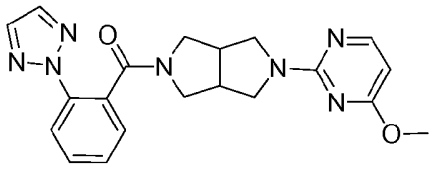
[0673]



[0674] The title compound was prepared in a manner analogous to Example 15 utilizing Intermediate 20 and 3-chloro-2,5-dimethyl-pyrazine. MS (ESI): mass calculated for $C_{20}H_{21}N_7O_2$, 391.44; m/z found 390.2 $[M+H]^+$. ^1H NMR (400 MHz, $CDCl_3$): 8.00 (d, *J* = 8.1, 1 H), 7.88 - 7.67 (m, 3H), 7.62 - 7.39 (m, 3H), 3.90 (dd, *J* = 12.6, 7.6, 1 H), 3.77 (dd, *J* = 10.7, 7.5, 1 H), 3.72 - 3.60 (m, 2H), 3.52 (dd, *J* = 10.8, 5.1, 1 H), 3.43 - 3.28 (m, 2H), 3.10 - 2.97 (m, 2H), 2.95 - 2.85 (m, 1 H), 2.51 (s, 3H), 2.36 (s, 3H).

Example 156: 2-(4-Methoxypyrimidin-2-yl)-5-{[2-(2H-1,2,3-triazol-2-yl)phenyl]carbonyl}octa hydropyrrolo[3,4-c]pyrrole.

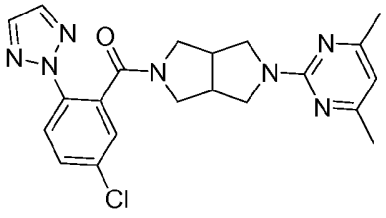
[0675]



[0676] The title compound was prepared in a manner analogous to Example 15 utilizing Intermediate 20 and 2-chloro-4-methoxypyrimidine. MS (ESI): mass calculated for $C_{20}H_{21}N_7O_2$, 391.43; m/z found 392.2 $[M+H]^+$. ^1H NMR (400 MHz, $CDCl_3$): 8.08 - 8.03 (m, 1 H), 7.99 (d, *J* = 8.1, 1H), 7.75 (s, 2H), 7.57 - 7.48 (m, 1 H), 7.44 - 7.41 (m, 2H), 6.00 (d, *J* = 5.7, 1 H), 3.97 - 3.79 (m, 5H), 3.77 - 3.63 (m, 2H), 3.61 - 3.53 (m, 1 H), 3.50 - 3.30 (m, 2H), 3.09 - 2.89, (m, 3H).

Example 157: 2-{[5-Chloro-2-(2H-1,2,3-triazol-2-yl)phenyl]carbonyl}-5-(4,6-dimethylpyrimidin-2-yl)octahydropyrrolo[3,4-c]pyrrole.

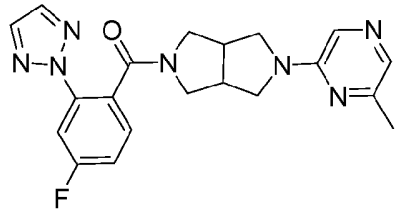
[0677]



[0678] The title compound was prepared in a manner analogous to Example 15 utilizing Intermediate 23 and Intermediate 9. MS (ESI): mass calculated for $C_{21}H_{22}ClN_7O$, 423.91; m/z found 424.2 $[M+H]^+$. ^1H NMR (400 MHz, $CDCl_3$): 7.95 (d, *J* = 8.7, 1 H), 7.74 (s, 2H), 7.48 (dd, *J* = 8.7, 2.3, 1 H), 7.40 (d, *J* = 2.3, 1 H), 6.30 (s, 1 H), 3.94 - 3.81 (m, 2H), 3.75 - 3.57 (m, 3H), 3.55 - 3.29 (m, 2H), 3.11 - 2.78 (m, 3H), 2.30 (s, 6H).

Example 158: 2-{[4-Fluoro-2-(2H-1,2,3-triazol-2-yl)phenyl]carbonyl}-5-(6-methylpyrazin-2-yl)octahydropyrrolo[3,4-c]pyrrole.

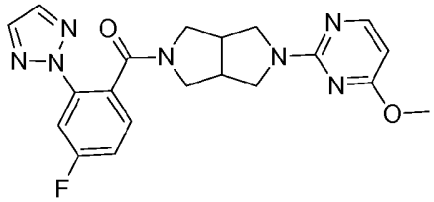
[0679]



[0680] The title compound was prepared in a manner analogous to Example 15 utilizing Intermediate 22 and 2-chloro-6-methyl-pyrazine. MS (ESI): mass calculated for $C_{20}H_{20}FN_7O$, 393.43; m/z found 394.2 $[M+H]^+$. ^1H NMR (400 MHz, $CDCl_3$): 7.82 - 7.69 (m, 4H), 7.64 (s, 1 H), 7.40 (dd, *J* = 8.5, 5.8, 1 H), 7.17 - 7.10 (m, 1 H), 3.97 - 3.83 (m, 1 H), 3.81 - 3.68 (m, 2H), 3.65 - 3.55 (m, 1 H), 3.53 - 3.29 (m, 3H), 3.18 - 2.88 (m, 3H), 2.38 (s, 3H).

Example 159: 2-{[4-Fluoro-2-(2H-1,2,3-triazol-2-yl)phenyl]carbonyl}-5-(4-methoxypyrimidin-2-yl)octahydropyrrolo[3,4-c]pyrrole.

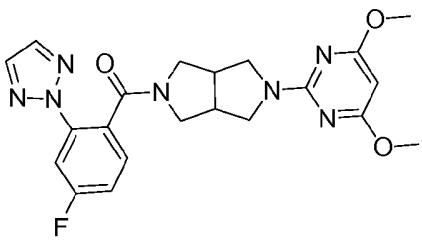
[0681]



[0682] The title compound was prepared in a manner analogous to Example 15 utilizing Intermediate 22 and 2-chloro-4-methoxypyrimidine. MS (ESI): mass calculated for $C_{20}H_{20}FN_7O_2$, 409.43; m/z found 388.3 $[M+H]^+$. ^1H NMR (400 MHz, $CDCl_3$): 8.06 (d, *J* = 5.7, 1 H), 7.88 - 7.62 (m, 3H), 7.45 - 7.37 (m, 1 H), 7.18 - 7.10 (m, 1H), 6.01 (d, *J* = 5.7, 1H), 4.00 - 3.81 (m, 5H), 3.70 (dd, *J* = 20.4, 8.4, 2H), 3.62 - 3.53 (m, 1 H), 3.51 - 3.28 (m, 2H), 3.13 - 2.84 (m, 3H).

Example 160: 2-(4,6-Dimethoxypyrimidin-2-yl)-5-{[4-fluoro-2-(2H-1,2,3-triazol-2-yl)phenyl]carbonyl}octahydropyrrolo[3,4-c]pyrrole.

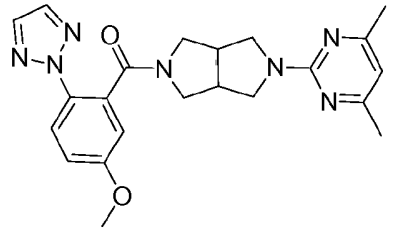
[0683]



[0684] The title compound was prepared in a manner analogous to Example 15 utilizing Intermediate 22 and 2-chloro-4,6-dimethoxypyrimidine. MS (ESI): mass calculated for $C_{21}H_{22}FN_7O_3$, 439.45; m/z found 440.2 $[M+H]^+$. ^1H NMR (400 MHz, $CDCl_3$): 7.86 - 7.66 (m, 3H), 7.47 - 7.34 (m, 1 H), 7.17 - 7.06 (m,1 H), 5.40 (s, 1 H), 3.98 - 3.77 (m, 8H), 3.76 - 3.61 (m, 2H), 3.60 - 3.52 (m, 1 H), 3.50 - 3.29 (m, 2H), 3.09 - 2.84 (m, 3H).

Example 161: [5-(4,6-Dimethyl-pyrimidin-2-yl)-hexahydro-pyrrolo[3,4-c]pyrrol-2-yl]-(5-methoxy-2-[1,2,3]triazol-2-yl-phenyl)-methanone.

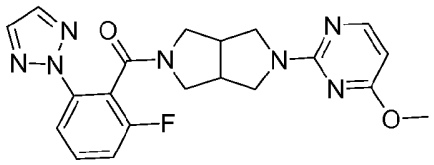
[0685]



[0686] The title compound was prepared in a manner analogous to Example 15 utilizing Intermediate 23 and Intermediate 10. MS (ESI): mass calculated for $C_{22}H_{25}N_7O_2$ 419.49; m/z found 420.3 $[M+H]^+$. ^1H NMR (400 MHz, $CDCl_3$): 7.85 (d, 1 H), 7.74 - 7.64 (m, 2H), 7.07 - 6.99 (m, 1 H), 6.94 - 6.88 (m, 1 H), 6.27 (s, *J* = 20.0, 1 H), 3.94 - 3.75 (m, 5H), 3.73 - 3.25 (m, 5H), 3.08 - 2.81 (m, 3H), 2.32 - 2.27 (m, 6H).

Example 162: (2-Fluoro-6-[1,2,3]triazol-2-yl-phenyl)-[5-(4-methoxy-pyrimidin-2-yl)-hexahydro-pyrrolo[3,4-c]pyrrol-2-yl]-methanone.

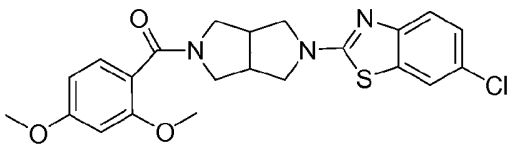
[0687]



[0688] The title compound was prepared in a manner analogous to Example 15 utilizing Intermediate 12 and 2-chloro-4-methoxypyrimidine. MS (ESI): mass calculated for $C_{20}H_{20}FN_7O_2$, 409.42; m/z found 410.2 $[M+H]^+$. ^1H NMR (400 MHz, $CDCl_3$): 8.10 - 8.01 (m, 1 H), 7.92 - 7.78 (m, 2H), 7.73 (s, 1 H), 7.53 - 7.41 (m, 1 H), 7.19 - 7.06 (m, 1 H), 6.03 - 5.97 (m, 1 H), 4.02 - 3.46 (m, 10H), 3.33 - 3.20 (m, 1 H), 3.16 - 2.88 (m, 2H).

Example 163: 6-Chloro-2-{5-[(2,4-dimethoxyphenyl)carbonyl]hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl)-1,3-benzothiazole.

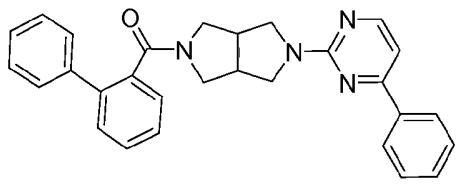
[0689]



[0690] The title compound was prepared in a manner analogous to Example 15 utilizing Intermediate 40 and 2,4-dimethoxybenzoic acid. MS (ESI): mass calculated for $C_{22}H_{22}ClN_3O_3S$, 443.96; m/z found 444.2 $[M+H]^+$.

Example 164: 2-(Biphenyl-2-ylcarbonyl)-5-(4-phenylpyrimidin-2-yl)octahydropyrrolo[3,4-c]pyrrole.

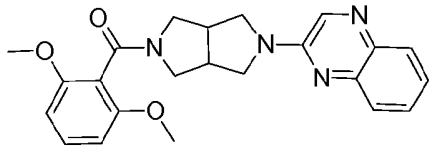
[0691]



[0692] The title compound was prepared in a manner analogous to Example 15 utilizing Intermediate 26 and biphenyl-2-carboxylic acid. MS (ESI) mass calcd. for $C_{29}H_{26}N_4O$, 446.56; m/z found, 447.3 $[M+H]^+$.

Example 165: 2-{5-[(2,6-Dimethoxyphenyl)carbonyl]hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl}quinoxaline.

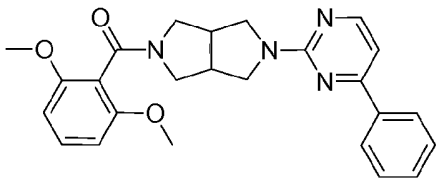
[0693]



[0694] The title compound was prepared in a manner analogous to Example 15 utilizing Intermediate 35 and 2,6-dimethoxybenzoic acid. MS (ESI) mass calcd. for $C_{23}H_{24}N_4O_3$, 404.47; m/z found, 405.3 $[M+H]^+$.

Example 166: 2-[(2,6-Dimethoxyphenyl)carbonyl]-5-(4-phenylpyrimidin-2-yl)octahydropyrrolo [3,4-c]pyrrole.

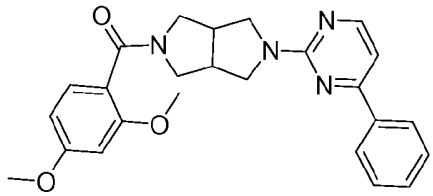
[0695]



[0696] The title compound was prepared in a manner analogous to Example 15 utilizing Intermediate 26 and 2,6-dimethoxybenzoic acid. MS (ESI) mass calcd. for $C_{25}H_{26}N_4O_3$, 430.51; m/z found, 431.2 $[M+H]^+$.

Example 167: 2-[(2,4-Dimethoxyphenyl)carbonyl]-5-(4-phenylpyrimidin-2-yl)octahydropyrrolo [3,4-c]pyrrole.

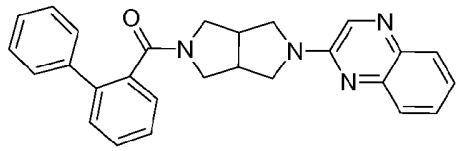
[0697]



[0698] The title compound was prepared in a manner analogous to Example 15 utilizing Intermediate 26 and 2,4-dimethoxybenzoic acid. MS (ESI) mass calcd. for $C_{25}H_{26}N_4O_3$, 430.51; m/z found, 431.2 $[M+H]^+$.

Example 168: 2-[5-(Biphenyl-2-ylcarbonyl)hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl]quinoxaline.

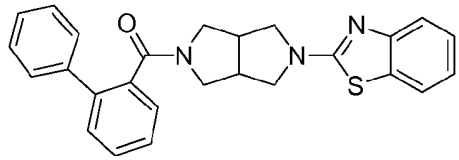
[0699]



[0700] The title compound was prepared in a manner analogous to Example 15 utilizing Intermediate 35 and biphenyl-2-carboxylic acid. MS (ESI) mass calcd. for $C_{27}H_{24}N_4O$, 420.52; m/z found, 421.3 $[M+H]^+$.

Example 169: 2-[5-(Biphenyl-2-ylcarbonyl)hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl]-1,3-benzothiazole.

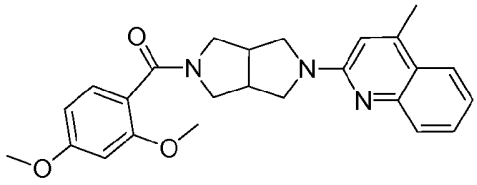
[0701]



[0702] The title compound was prepared in a manner analogous to Example 15 utilizing Intermediate 17 and 2-chloro-benzothiazole. MS (ESI) mass calcd. for $C_{26}H_{23}N_3OS$, 425.56; m/z found, 426.2 $[M+H]^+$.

Example 170: 2-{5-[(2,4-Dimethoxyphenyl)carbonyl]hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl}-4-methylquinoline.

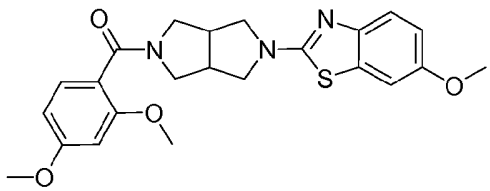
[0703]



[0704] The title compound was prepared in a manner analogous to Example 15 utilizing Intermediate 38 and 2-chloro-4-methyl-quinoline. MS (ESI) mass calcd. for $C_{25}H_{27}N_3O_3$, 417.51; m/z found, 418.3 $[M+H]^+$.

Example 171: 2-{5-[(2,4-Dimethoxyphenyl)carbonyl]hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl}-6-methoxy-1,3-benzothiazole.

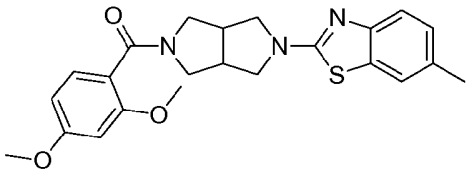
[0705]



[0706] The title compound was prepared in a manner analogous to Example 15 utilizing Intermediate 38 and 2-chloro-6-methoxy-benzothiazole. MS (ESI) mass calcd. for $C_{23}H_{25}N_3O_4S$, 439.54; m/z found, 440.2 $[M+H]^+$.

Example 172: 2-{5-[(2,4-Dimethoxyphenyl)carbonyl]hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl}-6-methyl-1,3-benzothiazole.

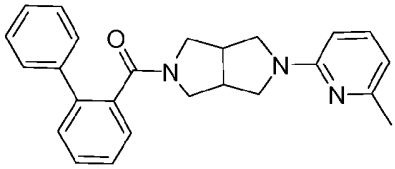
[0707]



[0708] The title compound was prepared in a manner analogous to Example 15 utilizing Intermediate 38 and 2-chloro-6-methyl-benzothiazole. MS (ESI) mass calcd. for $C_{23}H_{25}N_3O_3S$, 423.54; m/z found, 424.2 $[M+H]^+$.

Example 173: 2-(Biphenyl-2-ylcarbonyl)-5-(6-methylpyridin-2-yl)octahydropyrrolo[3,4-c]pyrrole.

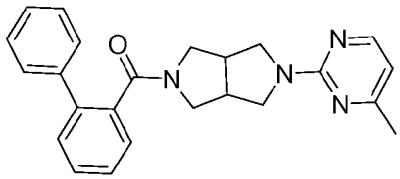
[0709]



[0710] The title compound was prepared in a manner analogous to Example 15 utilizing Intermediate 17 and 2-chloro-6-methyl-pyridine. MS (ESI) mass calcd. for $C_{25}H_{25}N_{43}O$, 383.5; m/z found, 384.3 $[M+H]^+$.

Example 174: 2-(Biphenyl-2-ylcarbonyl)-5-(4-methylpyrimidin-2-yl)octahydropyrrolo[3,4-c]pyrrole.

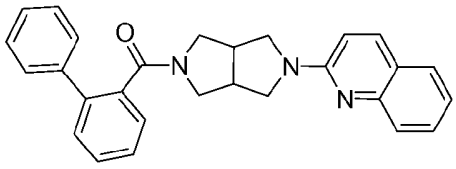
[0711]



[0712] The title compound was prepared in a manner analogous to Example 15 utilizing Intermediate 17 and 2-chloro-4-methyl-pyrimidine. MS (ESI) mass calcd. for $C_{24}H_{24}N_4O$, 384.49; m/z found, 385.2 $[M+H]^+$.

Example 175: 2-[5-(Biphenyl-2-ylcarbonyl)hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl]quinoline.

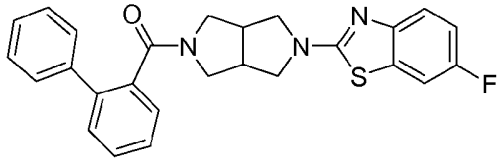
[0713]



[0714] The title compound was prepared in a manner analogous to Example 15 utilizing Intermediate 17 and 2-chloro-quinoline. MS (ESI) mass calcd. for $C_{28}H_{25}N_3O$, 419.53; m/z found, 420.3 $[M+H]^+$.

Example 176: 2-[5-(Biphenyl-2-ylcarbonyl)hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl]-6-fluoro-1,3-benzothiazole.

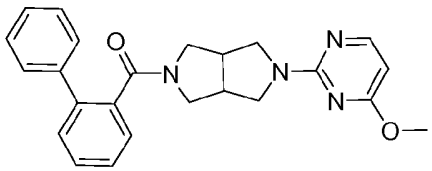
[0715]



[0716] The title compound was prepared in a manner analogous to Example 15 utilizing Intermediate 17 and 2-chloro-6-fluoro-benzothiazole. MS (ESI) mass calcd. for $C_{26}H_{22}FN_3OS$, 443.55; m/z found, 444.2 $[M+H]^+$.

Example 177: 2-(Biphenyl-2-ylcarbonyl)-5-(4-methoxypyrimidin-2-yl)octahydropyrrolo[3,4-c]pyrrole.

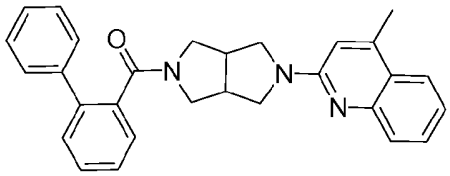
[0717]



[0718] The title compound was prepared in a manner analogous to Example 15 utilizing Intermediate 17 and 2-chloro-4-methoxypyrimidine. MS (ESI) mass calcd. for $C_{24}H_{24}N_4O_2$, 400.48; m/z found, 401.2 $[M+H]^+$.

Example 178: 2-[5-(Biphenyl-2-ylcarbonyl)hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl]-4-methylquinoline.

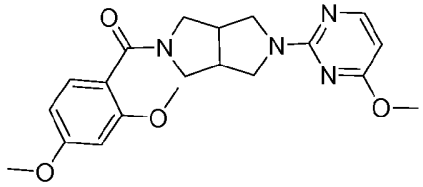
[0719]



[0720] The title compound was prepared in a manner analogous to Example 15 utilizing Intermediate 17 and 2-chloro-4-methyl-quinoline. MS (ESI) mass calcd. for $C_{29}H_{27}N_3O$, 433.56; m/z found, 434.3 $[M+H]^+$.

Example 179: (2,4-Dimethoxy-phenyl)-[5-(4-methoxy-pyrimidin-2-yl)-hexahydro-pyrrolo[3,4-c]pyrrol-2-yl]-methanone.

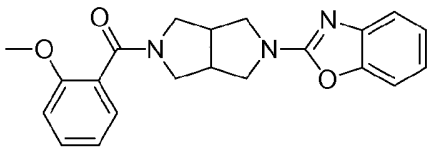
[0721]



[0722] The title compound was prepared in a manner analogous to Example 15 utilizing Intermediate 38 and 2-chloro-4-methoxypyrimidine. MS (ESI): mass calculated for $C_{20}H_{24}N_4O_4$, 384.43; m/z found 385.2 $[M+H]^+$.

Example 180: (5-Benzooxazol-2-yl-hexahydro-pyrrolo[3,4-c]pyrrol-2-yl)-(2-methoxy-phenyl)-methanone.

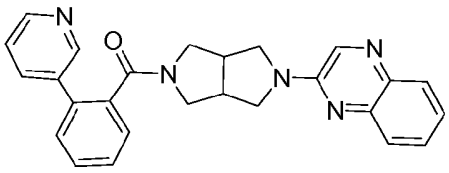
[0723]



[0724] The title compound was prepared in a manner analogous to Example 15 utilizing Intermediate 28 and 2-methoxybenzoic acid. MS (ESI): mass calculated for $C_{21}H_{21}N_3O_3$, 363.42; m/z found 364.2 $[M+H]^+$.

Example 181: (2-Pyridin-3-yl-phenyl)-(5-quinoxalin-2-yl-hexahydro-pyrrolo[3,4-c]pyrrol-2-yl)-methanone.

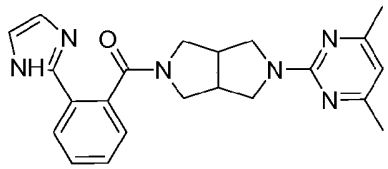
[0725]



[0726] The title compound was prepared in a manner analogous to Example 15 utilizing Intermediate 35 and 2-pyridin-3-yl-benzoic acid. MS (ESI): mass calculated for $C_{26}H_{23}N_5O$, 421.51; m/z found 422.3 $[M+H]^+$.

Example 182: [5-(4,6-Dimethyl-pyrimidin-2-yl)-hexahydro-pyrrolo[3,4-c]pyrrol-2-yl]-[2-(1H-imidazol-2-yl)-phenyl]-methanone.

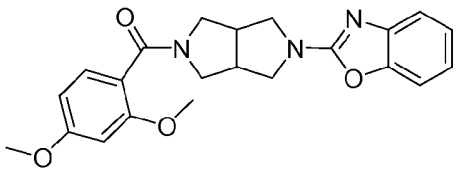
[0727]



[0728] The title compound was prepared in a manner analogous to Example 15 utilizing Intermediate 23 and 2-(1H-imidazol-2-yl)-benzoic acid. MS (ESI) mass calcd. for $C_{22}H_{24}N_6O$, 388.47; m/z found, 398.2 $[M+H]^+$.

Example 183: (5-Benzooxazol-2-yl-hexahydro-pyrrolo[3,4-c]pyrrol-2-yl)-(2,4-dimethoxy-phenyl)-methanone.

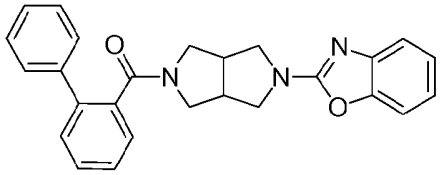
[0729]



[0730] The title compound was prepared in a manner analogous to Example 15 utilizing Intermediate 28 and 2,4-dimethoxybenzoic acid. MS (ESI): mass calculated for $C_{22}H_{23}N_3O_4$, 393.45; m/z found 394.2 $[M+H]^+$.

Example 184: (5-Benzooxazol-2-yl-hexahydro-pyrrolo[3,4-c]pyrrol-2-yl)-biphenyl-2-yl-methanone.

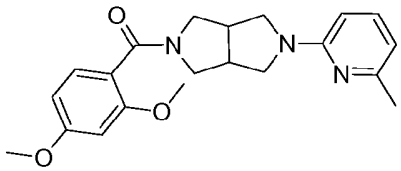
[0731]



[0732] The title compound was prepared in a manner analogous to Example 15 utilizing Intermediate 17 and 2-chloro-benzooxazole. MS (ESI): mass calculated for $C_{26}H_{23}N_3O_2$, 409.49; m/z found 410.2 $[M+H]^+$.

Example 185: (2,4-Dimethoxy-phenyl)-[5-(6-methyl-pyridin-2-yl)-hexahydro-pyrrolo[3,4-c]pyrrol-2-yl]-methanone.

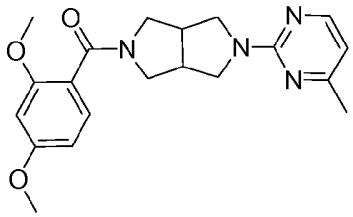
[0733]



[0734] The title compound was prepared in a manner analogous to Example 15 utilizing Intermediate 38 and 2-chloro-6-methyl-pyridine. MS (ESI): mass calculated for $C_{21}H_{25}N_3O_3$, 367.45; m/z found 368.3 $[M+H]^+$.

Example 186: (2,4-Dimethoxy-phenyl)-[5-(4-methyl-pyrimidin-2-yl)-hexahydro-pyrrolo[3,4-c]pyrrol-2-yl]-methanone.

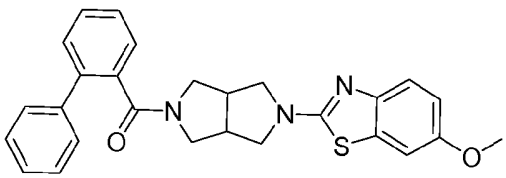
[0735]



[0736] The title compound was prepared in a manner analogous to Example 15 utilizing Intermediate 38 and 2-chloro-4-methylpyrimidine. MS (ESI): mass calculated for $C_{20}H_{24}FN_4O_3$, 368.43; m/z found 369.3 $[M+H]^+$.

Example 187: Biphenyl-2-yl-[5-(6-methoxy-benzothiazol-2-yl)-hexahydro-pyrrolo[3,4-c]pyrrol-2-yl]-methanone.

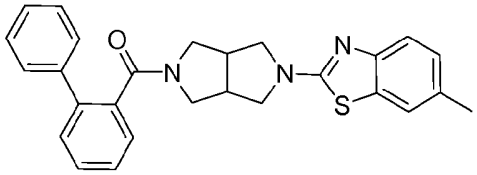
[0737]



[0738] The title compound was prepared in a manner analogous to Example 15 utilizing Intermediate 17 and 2-chloro-6-methoxy-benzothiazole. MS (ESI): mass calculated for $C_{27}H_{25}N_3O2S$, 455.57; m/z found 456.2 $[M+H]^+$.

Example 188: Biphenyl-2-yl-[5-(6-methyl-benzothiazol-2-yl)-hexahydro-pyrrolo[3,4-c]pyrrol-2-yl]-methanone.

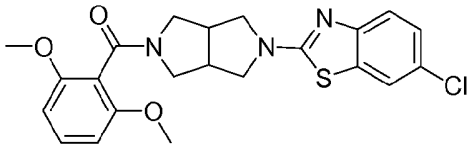
[0739]



[0740] The title compound was prepared in a manner analogous to Example 15 utilizing Intermediate 17 and 2-chloro-6-methyl-benzothiazole. MS (ESI): mass calculated for $C_{27}H_{25}N_3OS$, 439.57; m/z found 440.2 $[M+H]^+$.

Example 189: [5-(6-Chloro-benzothiazol-2-yl)-hexahydro-pyrrolo[3,4-c]pyrrol-2-yl]-(2,6-dimethoxy-phenyl)-methanone.

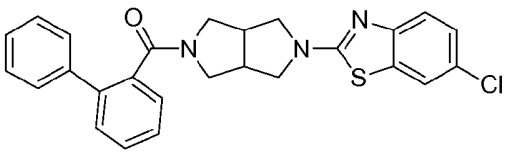
[0741]



[0742] The title compound was prepared in a manner analogous to Example 15 utilizing Intermediate 40 and 2,6-dimethoxybenzoic acid. MS (ESI): mass calculated for $C_{22}H_{22}ClN_3O_3S$, 443.96; m/z found 444.2 $[M+H]^+$.

Example 190: Biphenyl-2-yl-[5-(6-chloro-benzothiazol-2-yl)-hexahydro-pyrrolo[3,4-c]pyrrol-2-yl]-methanone.

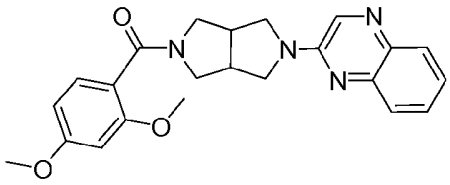
[0743]



[0744] The title compound was prepared in a manner analogous to Example 15 utilizing Intermediate 40 and biphenyl-2-carboxylic acid. MS (ESI): mass calculated for $C_{26}H_{22}ClN_3O_3S$, 459.99; m/z found 460.2 $[M+H]^+$.

Example 191: (2,4-Dimethoxy-phenyl)-(5-quinoxalin-2-yl-hexahydro-pyrrolo[3,4-c]pyrrol-2-yl)-methanone.

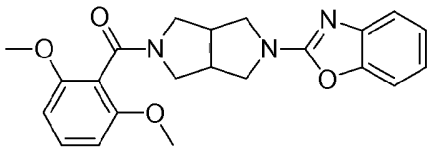
[0745]



[0746] The title compound was prepared in a manner analogous to Example 15 utilizing Intermediate 35 and 2,4-dimethoxybenzoic acid. MS (ESI): mass calculated for $C_{23}H_{24}N_4O_3$, 404.47; m/z found 405.3 $[M+H]^+$.

Example 192: (5-Benzooxazol-2-yl-hexahydro-pyrrolo[3,4-c]pyrrol-2-yl)-(2,6-dimethoxy-phenyl)-methanone.

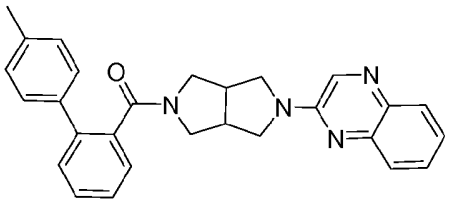
[0747]



[0748] The title compound was prepared in a manner analogous to Example 15 utilizing Intermediate 41 and 2-chloro-benzooxazole. MS (ESI): mass calculated for $C_{22}H_{23}N_3O_4$, 393.45; m/z found 394.2 $[M+H]^+$.

Example 193: (4'-Methyl-biphenyl-2-yl)-(5-quinoxalin-2-yl-hexahydro-pyrrolo[3,4-c]pyrrol-2-yl)-methanone.

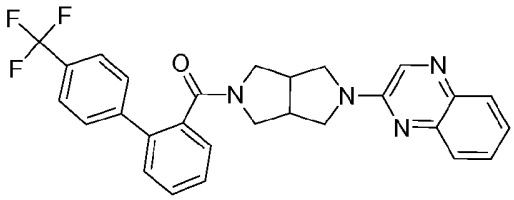
[0749]



[0750] The title compound was prepared in a manner analogous to Example 15 utilizing Intermediate 35 and 4'-methyl-biphenyl-2-carboxylic acid. MS (ESI): mass calculated for $C_{28}H_{26}N_4O$, 434.55; m/z found 435.3 $[M+H]^+$.

Example 194: (5-Quinoxalin-2-yl-hexahydro-pyrrolo[3,4-c]pyrrol-2-yl)-(4'-trifluoromethyl-biphenyl-2-yl)-methanone.

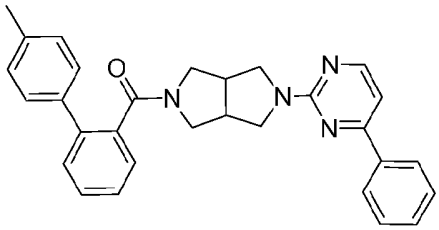
[0751]



[0752] The title compound was prepared in a manner analogous to Example 15 utilizing Intermediate 35 and 4'-trifluoromethyl-biphenyl-2-carboxylic acid. MS (ESI): mass calculated for $C_{28}H_{23}F_3N_4O$, 488.50; m/z found 489.2 $[M+H]^+$.

Example 195: (4'-Methyl-biphenyl-2-yl)-[5-(4-phenyl-pyrimidin-2-yl)-hexahydro-pyrrolo[3,4-c]pyrrol-2-yl]-methanone.

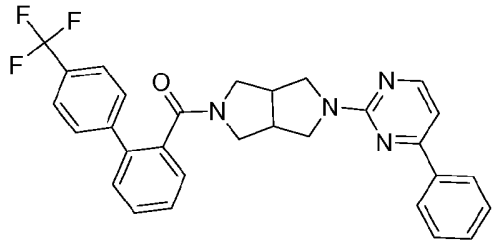
[0753]



[0754] The title compound was prepared in a manner analogous to Example 15 utilizing Intermediate 26 and 4'-methyl-biphenyl-2-carboxylic acid. MS (ESI): mass calculated for $C_{30}H_{28}N_4O$, 460.58; m/z found 461.3 $[M+H]^+$.

Example 196: [5-(4-Phenyl-pyrimidin-2-yl)-hexahydro-pyrrolo[3,4-c]pyrrol-2-yl]-(4'-trifluoromethyl-biphenyl-2-yl)-methanone.

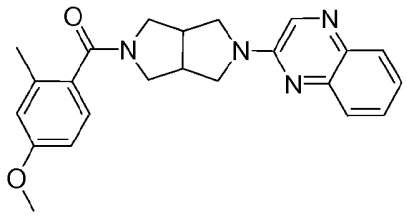
[0755]



[0756] The title compound was prepared in a manner analogous to Example 15 utilizing Intermediate 26 and 4'-trifluoromethyl-biphenyl-2-carboxylic acid. MS (ESI): mass calculated for $C_{30}H_{53}F_3N_4O$, 514.56; m/z found 515.3 $[M+H]^+$.

Example 197: (4-Methoxy-2-methyl-phenyl)-(5-quinoxalin-2-yl-hexahydro-pyrrolo[3,4-c]pyrrol-2-yl)-methanone.

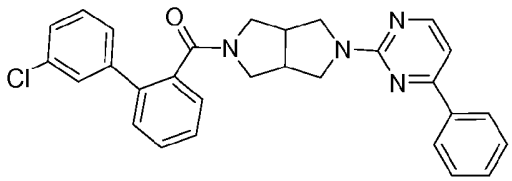
[0757]



[0758] The title compound was prepared in a manner analogous to Example 15 utilizing Intermediate 35 and 4-methoxy-2-methyl-benzoic acid. MS (ESI): mass calculated for $C_{23}H_{24}N_4O_2$, 388.47; m/z found 389.2 $[M+H]^+$.

Example 198: (3'-Chloro-biphenyl-2-yl)-[5-(4-phenyl-pyrimidin-2-yl)-hexahydro-pyrrolo[3,4-c]pyrrol-2-yl]-methanone.

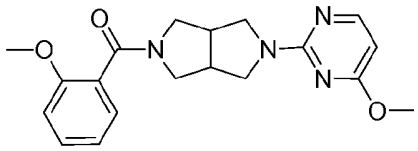
[0759]



[0760] The title compound was prepared in a manner analogous to Example 15 utilizing Intermediate 26 and 3'-chloro-biphenyl-2-carboxylic acid. MS (ESI): mass calculated for $C_{29}H_{25}ClN_4O$, 480.99; m/z found 481.2 $[M+H]^+$.

Example 199: (2-Methoxy-phenyl)-[5-(4-methoxy-pyrimidin-2-yl)-hexahydro-pyrrolo[3,4-c]pyrrol-2-yl]-methanone.

[0761]

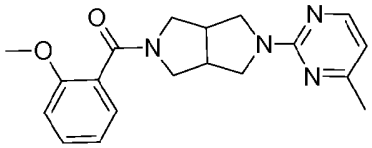


[0762] The title compound was prepared in a manner analogous to Example 15 utilizing Intermediate 32 and 2-

methoxybenzoic acid. MS (ESI): mass calculated for $C_{19}H_{22}N_4O_3$, 354.41; m/z found 355.2 $[M+H]^+$.

Example 200: (2-Methoxy-phenyl)-[5-(4-methyl-pyrimidin-2-yl)-hexahydro-pyrrolo[3,4-c]pyrrol-2-yl]-methanone.

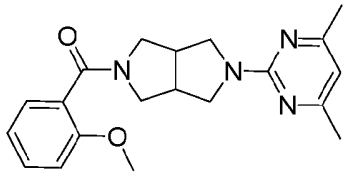
[0763]



[0764] The title compound was prepared in a manner analogous to Example 15 utilizing Intermediate 27 and 2-methoxybenzoic acid. MS (ESI): mass calculated for $C_{19}H_{22}N_4O_2$, 338.41; m/z found 339.3 $[M+H]^+$.

Example 201: [5-(4,6-Dimethyl-pyrimidin-2-yl)-hexahydro-pyrrolo[3,4-c]pyrrol-2-yl]-(2-methoxy-phenyl)-methanone.

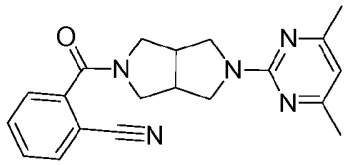
[0765]



[0766] The title compound was prepared in a manner analogous to Example 15 utilizing Intermediate 23 and 2-methoxybenzoic acid. MS (ESI): mass calculated for $C_{20}H_{24}N_4O_2$, 352.44; m/z found 353.3 $[M+H]^+$.

Example 202: 2-[5-(4,6-Dimethyl-pyrimidin-2-yl)-hexahydro-pyrrolo[3,4-c]pyrrole-2-carbonyl]-benzonitrile.

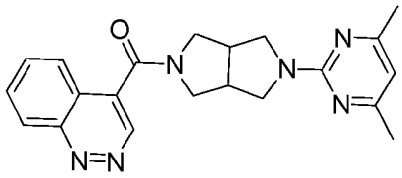
[0767]



[0768] The title compound was prepared in a manner analogous to Example 15 utilizing Intermediate 23 and 2-cyanobenzoic acid. MS (ESI): mass calculated for $C_{20}H_{21}N_5O$, 347.42; m/z found 348.2 $[M+H]^+$. ^1H NMR (400 MHz, $CDCl_3$): 8.51 - 8.39 (m, 2H), 7.37-7.32 (m, 1 H), 7.25 - 7.06 (m, 3H), 6.76 (t, *J* = 13.7 Hz, 1 H), 4.18 - 3.96 (m, 3H), 3.48 - 3.33 (m, 1 H), 3.05 (dd, *J* = 12.9, 6.4 Hz, 1 H), 2.69 - 2.27 (m, 10H), 1.68 - 1.50 (m, 5H), 1.50 - 1.37 (m, 3H).

Example 203: Cinnolin-4-yl-[5-(4,6-dimethyl-pyrimidin-2-yl)-hexahydro-pyrrolo[3,4-c]pyrrol-2-yl]-methanone.

[0769]

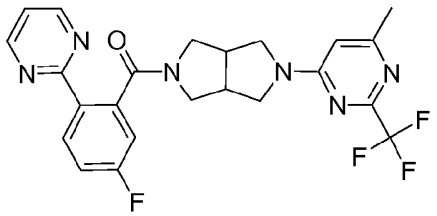


[0770] The title compound was prepared in a manner analogous to Example 15 utilizing Intermediate 23 and cinnoline-4-carboxylic acid. MS (ESI): mass calculated for $C_{21}H_{22}N_6O$, 374.45; m/z found 375.2 $[M+H]^+$. ^1H NMR (400 MHz,

$CDCl_3$): 9.26 (s, 1 H), 8.61 (dd, *J* = 8.4, 1.1 Hz, 1 H), 7.96-7.85 (m, 2H), 7.83 - 7.74 (m, 1 H), 6.33 (s, 1 H), 4.13-4.07 (m, 1 H), 3.92 (dd, *J* = 11.7, 7.5 Hz, 1 H), 3.84 (dd, *J* = 13.0, 4.9 Hz, 1 H), 3.78-3.68(m, 2H), 3.54-3.42 (m, 2H), 3.20 - 3.09 (m, 2H), 3.04-2.98(m, 1 H), 2.29 (s, 6H).

Example 204: (5-Fluoro-2-pyrimidin-2-yl-phenyl)-[5-(6-methyl-2-trifluoromethyl-pyrimidin-4-yl)-hexahydro-pyrrolo[3,4-c]pyrrol-2-yl]-methanone.

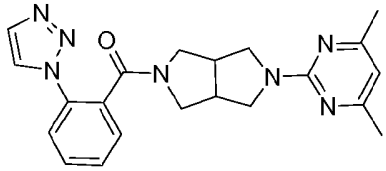
[0771]



[0772] The title compound was prepared in a manner analogous to Example 15 utilizing Intermediate 13 and Intermediate 31. MS (ESI): mass calculated for $C_{23}H_{20}F_4N_6O$, 472.45; m/z found 473.2 $[M+H]^+$.

Example 205: [5-(4,6-Dimethyl-pyrimidin-2-yl)-hexahydro-pyrrolo[3,4-c]pyrrol-2-yl]-(2-[1,2,3]triazol-1-yl-phenyl)-methanone.

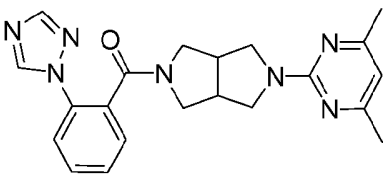
[0773]



[0774] The title compound was prepared in a manner analogous to Example 15 utilizing Intermediate 3 and Intermediate 15 as starting materials. In this case Intermediate C was coupled to Intermediate 15 first then the t-butylcarboxylate was removed prior to the addition of 2-chloro-4,6-methylpyrimidine. (ESI): mass calculated for $C_{21}H_{23}N_7O$, 389.46; m/z found 390.2 $[M+H]^+$. ^1H NMR (400 MHz, $CDCl_3$): 7.99 (d, *J* = 1.0 Hz, 1 H), 7.79 (d, *J* = 0.9 Hz, 1 H), 7.67 - 7.62 (m, 1 H), 7.62-7.52 (m, 2H), 7.49 - 7.45 (m, 1 H), 7.27 (s, 1 H), 3.87 - 3.65 (m, 3H), 3.54 - 3.44 (m, 2H), 3.38 - 3.25 (m, 2H), 3.04 - 2.78 (m, 3H), 2.29 (s, 6H).

Example 206: [5-(4,6-Dimethyl-pyrimidin-2-yl)-hexahydro-pyrrolo[3,4-c]pyrrol-2-yl]-(2-[1,2,4]triazol-1-yl-phenyl)-methanone.

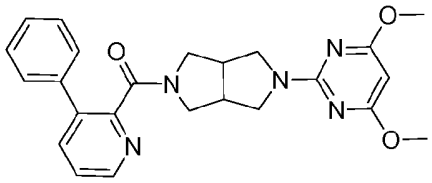
[0775]



[0776] The title compound was prepared in a manner analogous to Example 15 utilizing Intermediate 23 and 2-(4H-[1,2,4]triazol-3-yl)-benzoic acid. MS (ESI) mass calcd. for $C_{21}H_{23}N_7O$, 389.46; m/z found, 390.2 $[M+H]^+$.

Example 207: [5-(4,6-Dimethoxy-pyrimidin-2-yl)-hexahydro-pyrrolo[3,4-c]pyrrol-2-yl]-(3-phenyl-pyridin-2-yl)-methanone.

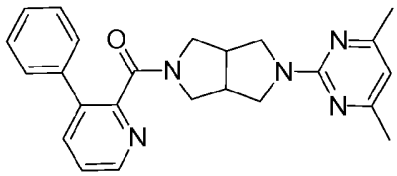
[0777]



[0778] The title compound was prepared in a manner analogous to Example 15 utilizing Intermediate 39 and 3-phenyl-pyridine-2-carboxylic acid. MS (ESI): mass calculated for $C_{24}H_{25}N_5O_3$, 431.50; m/z found 432.3 $[M+H]^+$.

Example 208: [5-(4,6-Dimethyl-pyrimidin-2-yl)-hexahydro-pyrrolo[3,4-c]pyrrol-2-yl]-(3-phenyl-pyridin-2-yl)-methanone.

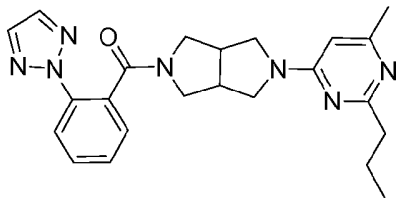
[0779]



[0780] The title compound was prepared in a manner analogous to Example 15 utilizing Intermediate 23 and 3-phenyl-pyridine-2-carboxylic acid. MS (ESI): mass calculated for $C_{24}H_{25}N_5O$, 399.5; m/z found 400.3 $[M+H]^+$.

Example 209: [5-(6-Methyl-2-propyl-pyrimidin-4-yl)-hexahydro-pyrrolo[3,4-c]pyrrol-2-yl]-(2-[1,2,3]triazol-2-yl-phenyl)-methanone.

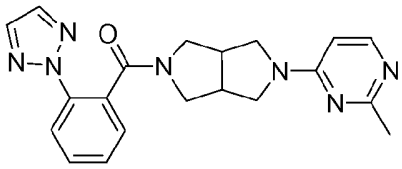
[0781]



[0782] The title compound was prepared in a manner analogous to Example 15 utilizing Intermediate 20 and 4-chloro-6-methyl-2-propyl-pyrimidine. MS (ESI): mass calculated for $C_{23}H_{27}N_7O$, 417.51; m/z found 418.2 $[M+H]^+$.

Example 210: [5-(2-Methyl-pyrimidin-4-yl)-hexahydro-pyrrolo[3,4-c]pyrrol-2-yl]-(2-[1,2,3]triazol-2-yl-phenyl)-methanone.

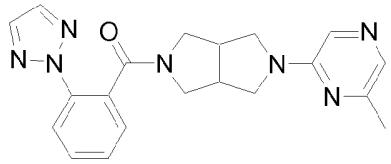
[0783]



[0784] The title compound was prepared in a manner analogous to Example 15 utilizing Intermediate 20 and 4-chloro-2-methyl-pyrimidine. MS (ESI): mass calculated for $C_{20}H_{21}N_7O$, 375.43; m/z found 376.2 $[M+H]^+$.

Example 211: [5-(6-Methyl-pyrazin-2-yl)-hexahydro-pyrrolo[3,4-c]pyrrol-2-yl]-(2-[1,2,3]triazol-2-yl-phenyl)-methanone.

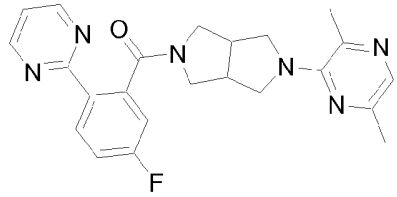
[0785]



[0786] The title compound was prepared in a manner analogous to Example 15 utilizing Intermediate 20 and 2-chloro-6-methyl-pyrazine. MS (ESI): mass calculated for $C_{20}H_{21}N_7O$, 375.43; m/z found 376.2 $[M+H]^+$.

Example 212: [5-(3,6-Dimethyl-pyrazin-2-yl)-hexahydro-pyrrolo[3,4-c]pyrrol-2-yl]-(5-fluoro-2-pyrimidin-2-yl-phenyl)-methanone.

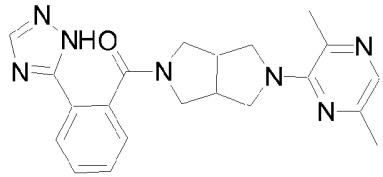
[0787]



[0788] The title compound was prepared in a manner analogous to Example 15 utilizing Intermediate 34 and Intermediate 13. MS (ESI): mass calculated for $C_{23}H_{23}FN_6O$, 418.47; m/z found 419.2 $[M+H]^+$.

Example 213: [5-(3,6-Dimethyl-pyrazin-2-yl)-hexahydro-pyrrolo[3,4-c]pyrrol-2-yl]-[2-(2H-[1,2,4]triazol-3-yl)-phenyl]-methanone.

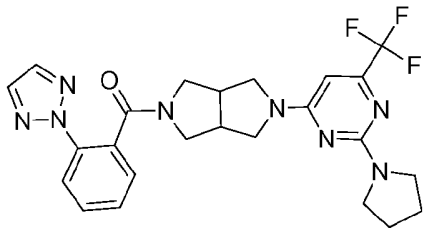
[0789]



[0790] The title compound was prepared in a manner analogous to Example 15 utilizing Intermediate 34 and 2-(4H-[1,2,4]triazol-3-yl)-benzoic acid. MS (ESI): mass calculated for $C_{21}H_{23}N_7O$, 389.46; m/z found 390.2 $[M+H]^+$.

Example 214: [5-(2-Pyrrolidin-1-yl-6-trifluoromethyl-pyrimidin-4-yl)-hexahydro-pyrrolo[3,4-c]pyrrol-2-yl]-(2-[1,2,3]triazol-2-yl-phenyl)-methanone.

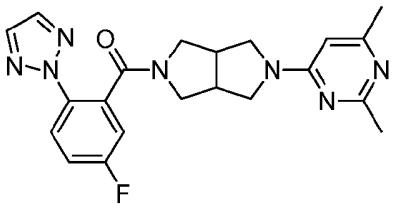
[0791]



[0792] The title compound was prepared in a manner analogous to Example 15 utilizing Intermediate 20 and 4-chloro-2-pyrrolidin-1-yl-6-trifluoromethyl-pyrimidine acid. MS (ESI): mass calculated for $C_{24}H_{25}F_3N_8O$, 498.51; m/z found 499.2 $[M+H]^+$.

Example 215: 2-(2,6-Dimethylpyrimidin-4-yl)-5-{[5-fluoro-2-(2H-1,2,3-triazol-2-yl)phenyl]carbonyl}octahydropyrrolo[3,4-c]pyrrole.

[0793]

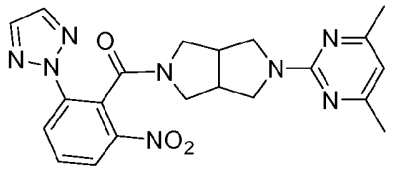


[0794] The title compound was prepared in a manner analogous to Intermediate 23, substituting (5-fluoro-2-(2H-1,2,3-triazol-2-yl)phenyl)(hexahydropyrrolo[3,4-c]pyrrol-2(1 H)-yl)methanone (Intermediate 21) for hexahydro-pyrrolo[3,4-c]pyrrole-2-carboxylic acid tert-butyl ester and 4-chloro-2,6-dimethylpyrimidine for 2-chloro-4,6-dimethyl-pyrimidine in Step A. MS (ESI) mass calcd for $C_{21}H_{22}FN_7O$, 407.19; m/z found, 408.2 $[M+H]^+$.

[0795] Prophetic Examples 216-218 may be synthesized using the general schemes provided above.

Example 216: [5-(4,6-Dimethyl-pyrimidin-2-yl)-hexahydro-pyrrolo[3,4-c]pyrrol-2-yl]-(2-nitro-6-[1,2,3]triazol-2-yl-phenyl)-methanone.

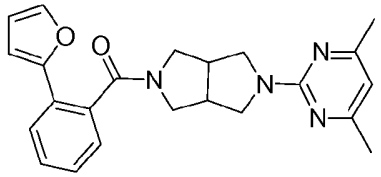
[0796]



[0797] MS (ESI) mass calcd. for $C_{21}H_{22}N_8O_3$, 434.45.

Example 217: [5-(4,6-Dimethyl-pyrimidin-2-yl)-hexahydro-pyrrolo[3,4-c]pyrrol-2-yl]-(2-furan-2-yl-phenyl)-methanone.

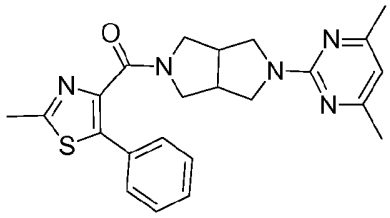
[0798]



[0799] MS (ESI) mass calcd. for $C_{23}H_{24}N_4O_3$, 388.46.

Example 218: [5-(4,6-Dimethyl-pyrimidin-2-yl)-hexahydro-pyrrolo[3,4-c]pyrrol-2-yl]-(2-methyl-5-phenyl-thiazol-4-yl)-methanone.

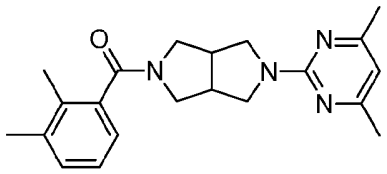
[0800]



[0801] MS (ESI) mass calcd. for $C_{23}H_{25}N_5OS$, 419.54.

Example 219: 2-[(2,3-Dimethylphenyl)carbonyl]-5-(4,6-dimethylpyrimidin-2-yl)octahydropyrrolo[3,4-c]pyrrole.

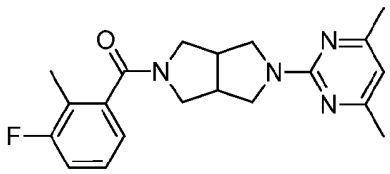
[0802]



[0803] The title compound was prepared in a manner analogous to Example 15 utilizing Intermediate 23 and 2,3-dimethylbenzoic acid. MS (ESI): mass calculated for $C_{21}H_{26}N_4O$, 350.47; m/z found 351.3 $[M+H]^+$. ^1H NMR (400 MHz, $CDCl_3$): 7.16 - 7.05 (m, 2H), 7.02 (d, *J* = 7.1 Hz, 1 H), 6.30 (s, 1 H), 4.00-3.86 (m, 2H), 3.78 (dd, *J* = 11.6, 7.4 Hz, 1 H), 3.70-3.58 (m, 2H), 3.49 - 3.38 (m, 2H), 3.17 - 3.02 (m, 2H), 2.99 - 2.92 (m, 1 H), 2.35 - 2.28 (s, 6H), 2.27 (s, 3H), 2.19 (s, 3H).

Example 220: 2-(4,6-Dimethylpyrimidin-2-yl)-5-[(3-fluoro-2-methylphenyl)carbonyl]octahydropyrrolo[3,4-c]pyrrole.

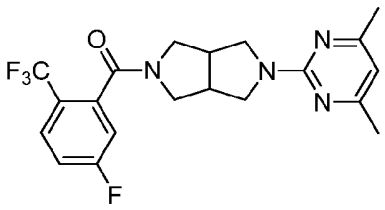
[0804]



[0805] The title compound was prepared in a manner analogous to Example 15 utilizing Intermediate 23 and 3-fluoro-2-methylbenzoic acid. MS (ESI): mass calculated for $C_{20}H_{23}FN_4O$, 354.4; m/z found 355.3 $[M+H]^+$. ^1H NMR (400 MHz, $CDCl_3$): 7.22 - 7.14 (m, 1 H), 7.06-6.95 (m, 2H), 6.30 (s, 1 H), 4.00-3.86 (m, 2H), 3.78 (dd, *J* = 11.6, 7.3 Hz, 1 H), 3.70-3.58 (m, 2H), 3.52 - 3.39 (m, 2H), 3.19 - 3.02 (m, 2H), 3.02 - 2.92 (m, 1 H), 2.30 (s, 6H), 2.21 (d, *J* = 2.0 Hz, 3H).

Example 221: 2-(4,6-Dimethylpyrimidin-2-yl)-5-{[5-fluoro-2-(trifluoromethyl)phenyl]carbonyl}octahydropyrrolo[3,4-c]pyrrole.

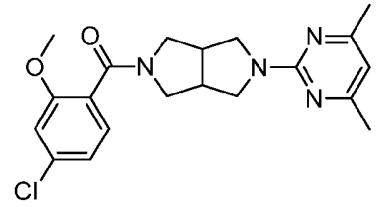
[0806]



[0807] The title compound was prepared in a manner analogous to Example 15 utilizing Intermediate 23 and 5-fluoro-2-(trifluoromethyl)benzoic acid. MS (ESI): mass calculated for $C_{20}H_{20}F_4N_4O$, 408.4; m/z found 409.2 $[M+H]^+$. ^1H NMR (400 MHz, $CDCl_3$): 7.71 (dd, *J* = 8.8, 5.0 Hz, 1 H), 7.22 - 7.14 (m, 1 H), 7.06 (dd, *J* = 8.1, 2.3 Hz, 1 H), 6.31 (s, 1 H), 4.01-3.87 (m, 2H), 3.79 (dd, *J* = 11.7, 7.3 Hz, 1H), 3.69 - 3.56 (m, 2H), 3.53 - 3.41 (m, 2H), 3.19 - 3.04 (m, 2H), 3.05-2.97 (m, 1H), 2.30 (s, 6H).

Example 222: 2-[(4-Chloro-2-methoxyphenyl)carbonyl]-5-(4,6-dimethylpyrimidin-2-yl)octahydropyrrolo[3,4-c]pyrrole.

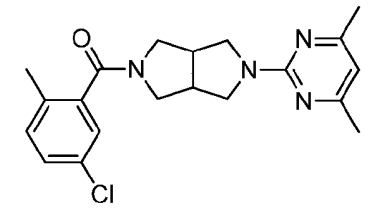
[0808]



[0809] The title compound was prepared in a manner analogous to Example 15 utilizing Intermediate 23 and 4-chloro-2-methoxybenzoic acid. MS (ESI): mass calculated for $C_{20}H_{23}ClN_4O_2$, 386.9; m/z found 389.2 $[M+H]^+$. ^1H NMR (400 MHz, $CDCl_3$): 7.18 (d, *J* = 8.0 Hz, 1 H), 6.97 (dd, *J* = 8.0, 1.8 Hz, 1 H), 6.89 (d, *J* = 1.7 Hz, 1 H), 6.29 (s, 1 H), 3.98 - 3.82 (m, 2H), 3.80 (s, 3H), 3.78 - 3.73 (m, 1 H), 3.68-3.59 (m, 2H), 3.55 - 3.44 (m, 2H), 3.19 (dd, *J* = 11.1, 5.0 Hz, 1 H), 3.13 - 2.90 (m, 2H), 2.29 (s, 6H).

Example 223: 2-[(5-Chloro-2-methylphenyl)carbonyl]-5-(4,6-dimethylpyrimidin-2-yl)octahydropyrrolo[3,4-c]pyrrole.

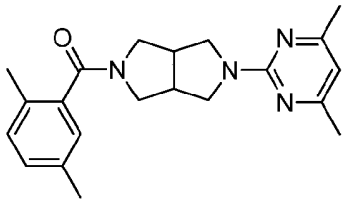
[0810]



[0811] The title compound was prepared in a manner analogous to Example 15 utilizing Intermediate 23 and 5-chloro-2-methylbenzoic acid. MS (ESI): mass calculated for $C_{20}H_{23}ClN_4O$, 370.9; m/z found 371.2 $[M+H]^+$. ^1H NMR (400 MHz, $CDCl_3$): 7.26-7.21 (m, 1 H), 7.18-7.13 (m, 2H), 6.31 (s, 1 H), 4.00 - 3.86 (m, 2H), 3.79 (dd, *J* = 11.6, 7.3 Hz, 1 H), 3.68-3.57 (m, 2H), 3.51 - 3.42 (m, 2H), 3.17 - 2.94 (m, 3H), 2.30 (s, 6H), 2.26 (s, 3H).

Example 224: 2-[(2,5-Dimethylphenyl)carbonyl]-5-(4,6-dimethylpyrimidin-2-yl)octahydropyrrolo[3,4-c]pyrrole.

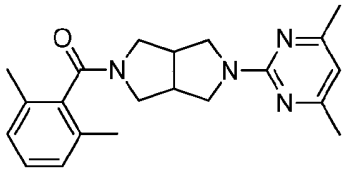
[0812]



[0813] The title compound was prepared in a manner analogous to Example 15 utilizing Intermediate 23 and 2,5-dimethylbenzoic acid. MS (ESI): mass calculated for $C_{21}H_{26}N_4O$, 350.5; m/z found 351.3 $[M+H]^+$. ^1H NMR (400 MHz, $CDCl_3$): 7.11 - 7.03 (m, 2H), 6.99 (s, 1 H), 6.30 (s, 1 H), 4.00-3.87 (m, 2H), 3.78 (dd, *J* = 11.5, 7.4 Hz, 1 H), 3.70-3.58 (m, 2H), 3.50-3.42 (m, 2H), 3.15-2.90 (m, 3H), 2.32 (s, 3H), 2.32 (s, 3H), 2.24 (s, 3H).

Example 225: 2-[(2,6-Dimethylphenyl)carbonyl]-5-(4,6-dimethylpyrimidin-2-yl)octahydropyrrolo[3,4-c]pyrrole.

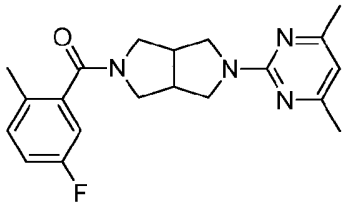
[0814]



[0815] The title compound was prepared in a manner analogous to Example 15 utilizing Intermediate 23 and 2,6-dimethylbenzoic acid. MS (ESI): mass calculated for $C_{21}H_{26}N_4O$, 350.5; m/z found 351.3 $[M+H]^+$. ^1H NMR (400 MHz, $CDCl_3$): 7.13 (t, *J* = 7.6 Hz, 1 H), 7.51-7.00 (m, 2H), 6.30 (s, 1 H), 4.15-3.87 (m, 2H), 3.85-3.75 (m, 1 H), 3.73-3.67 (m, 1 H), 3.63-3.55 (m, 1 H), 3.50 - 3.44 (m, 1 H), 3.40-3.33 (m, 1 H), 3.08 - 2.90 (m, 3H), 2.28 (s, 6H), 2.21 (s, 3H), 1.80 (s, 3H).

Example 226: 2-(4,6-Dimethylpyrimidin-2-yl)-5-[(5-fluoro-2-methylphenyl)carbonyl]octahydropyrrolo[3,4-c]pyrrole.

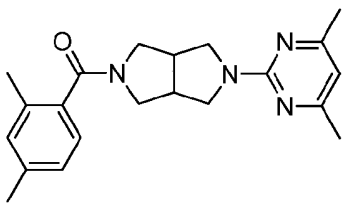
[0816]



[0817] The title compound was prepared in a manner analogous to Example 15 utilizing Intermediate 23 and 5-fluoro-2-methylbenzoic acid. MS (ESI): mass calculated for $C_{20}H_{23}FN_4O$, 354.4; m/z found 355.3 $[M+H]^+$. ^1H NMR (400 MHz, $CDCl_3$): 7.16 (dd, *J* = 8.5, 5.4 Hz, 1 H), 6.98-6.92 (m, 1 H), 6.90 (dd, *J* = 8.5, 2.7 Hz, 1 H), 6.30 (s, 1 H), 3.98-3.87 (m 2H), 3.79 (dd, *J* = 11.6, 7.3 Hz, 1 H), 3.68-3.57 (m, 2H), 3.50-3.43 (m, 2H), 3.16 - 2.94 (m, 3H), 2.30 (s, 6H), 2.26 (d, *J* = 8.6 Hz, 3H).

Example 227: 2-[(2,4-Dimethylphenyl)carbonyl]-5-(4,6-dimethylpyrimidin-2-yl)octahydropyrrolo[3,4-c]pyrrole.

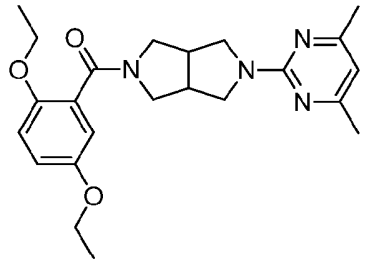
[0818]



[0819] The title compound was prepared in a manner analogous to Example 15 utilizing Intermediate 23 and 2,4-dimethylbenzoic acid. MS (ESI): mass calculated for $C_{21}H_{26}N_4O$, 350.5; m/z found 351.3 $[M+H]^+$. ^1H NMR (400 MHz, $CDCl_3$): 7.02 (s, 2H), 6.29 (s, 0H), 3.92 (ddd, *J* = 19.2, 12.2, 7.7 Hz, 2H), 3.77 (dd, *J* = 11.6, 7.4 Hz, 0H), 3.63 (ddd, *J* = 18.1, 12.2, 4.9 Hz, 1 H), 3.52 - 3.39 (m, 1 H), 3.06 (ddd, *J* = 50.9, 27.4, 6.2 Hz, 0H), 2.30 (d, *J* = 6.6 Hz, 3H), 2.28-2.24 (m, 3H).

Example 228: 2-[(2,5-Diethoxyphenyl)carbonyl]-5-(4,6-dimethylpyrimidin-2-yl)octahydropyrrolo[3,4-c]pyrrole.

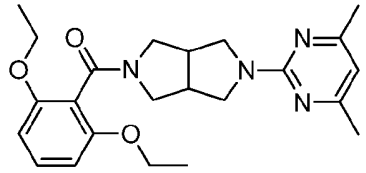
[0820]



[0821] The title compound was prepared in a manner analogous to Example 15 utilizing Intermediate 23 and 2,5-diethoxybenzoic acid. MS (ESI): mass calculated for $C_{23}H_{30}N_4O_3$, 410.5; m/z found 411.3 $[M+H]^+$. ^1H NMR (400 MHz, $CDCl_3$): 6.89 - 6.77 (m, 3H), 6.28 (s, 1 H), 4.04 - 3.83 (m, 6H), 3.80-3.74 (m, 1 H), 3.70 - 3.44 (m, 4H), 3.27 (s, 1 H), 3.13 - 2.90 (m, 2H), 2.26 (s, 6H), 1.44 - 1.23 (m, 6H).

Example 229: 2-[(2,6-Diethoxyphenyl)carbonyl]-5-(4,6-dimethylpyrimidin-2-yl)octahydropyrrolo[3,4-c]pyrrole.

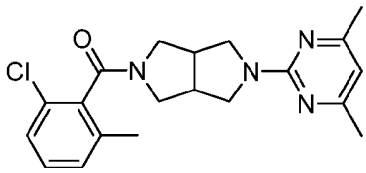
[0822]



[0823] The title compound was prepared in a manner analogous to Example 15 utilizing Intermediate 23 and 2,6-diethoxybenzoic acid. MS (ESI): mass calculated for $C_{23}H_{30}N_4O_3$, 410.5; m/z found 411.3 $[M+H]^+$. ^1H NMR (400 MHz, $CDCl_3$): 7.19 (t, *J* = 8.4 Hz, 1 H), 6.55-6.46 (m, 2H), 6.27 (s, 1 H), 4.06 (q, *J* = 7.0 Hz, 2H), 3.98 (q, *J* = 7.0 Hz, 2H), 3.94 - 3.82 (m, 2H), 3.79-3.65 (m, 2H), 3.61 (dd, *J* = 11.6, 5.0 Hz, 1 H), 3.57 - 3.42 (m, 2H), 3.17 (dd, *J* = 11.0, 5.0 Hz, 1H), 3.11 - 2.87 (m, 2H), 2.31-2.27 (m, 6H), 1.44 - 1.25 (m, 6H).

Example 230: 2-[(2-Chloro-6-methylphenyl)carbonyl]-5-(4,6-dimethylpyrimidin-2-yl)octahydropyrrolo[3,4-c]pyrrole.

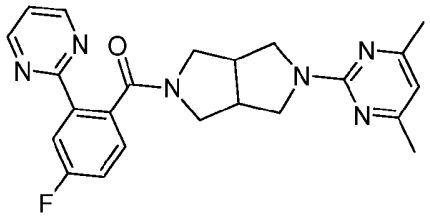
[0824]



[0825] The title compound was prepared in a manner analogous to Example 15 utilizing Intermediate 23 and 2-chloro-6-methylbenzoic acid. MS (ESI): mass calculated for $C_{20}H_{23}ClN_4O$, 370.9; m/z found 371.2 $[M+H]^+$. ^1H NMR (400 MHz, $CDCl_3$): (rotamers observed) 7.24 - 7.14 (m, 2H), 7.15-7.07 (m, 1H), 6.31-6.28 (m, 1 H), 4.06 - 3.85 (m, 2H), 3.85 - 3.75 (m, 1 H), 3.74-3.36 (m, 1 H), 3.65-3.52 (m, 2H), 3.45-3.51 (m, 1 H), 3.37-3.30 (m, 1 H), 3.25 - 3.14 (m, 1 H), 3.14 - 2.94 (m, 2H), 2.37 - 2.23 (m, 9H).

Example 231: (5-(4,6-Dimethylpyrimidin-2-yl)hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl)(4-fluoro-2-(pyrimidin-2-yl)phenyl)methanone.

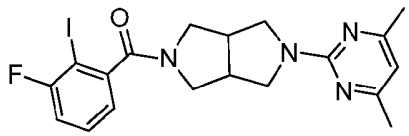
[0826]



[0827] The title compound was prepared in a manner analogous to Example 15, substituting Intermediate 87 for 3-fluoro-2-[1,2,3]triazol-2-yl-benzoic acid. MS (ESI) mass calcd. for $C_{23}H_{23}FN_6O$, 418.47; m/z found, 419.2 $[M+H]^+$.

Example 232: (5-(4,6-Dimethylpyrimidin-2-yl)hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl)(3-fluoro-2-iodophenyl)methanone.

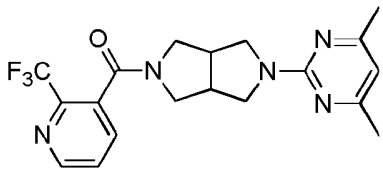
[0828]



[0829] The title compound was prepared in a manner analogous to Example 15 substituting 2-iodo-3-fluorobenzoic acid for 3-fluoro-2-[1,2,3]triazol-2-yl-benzoic acid. MS (ESI) mass calcd. for $C_{19}H_{20}FIN_4O$, 466.3; m/z found, 467.2 $[M+H]^+$. ^1H NMR (400 MHz, $CDCl_3$): 7.36 (ddd, *J* = 8.2, 7.5, 5.2 Hz, 1 H), 7.04 (ddd, *J* = 8.5, 7.7, 1.3 Hz, 2H), 6.30 (s, 1 H), 3.94 (ddd, *J* = 20.9, 12.2, 7.6 Hz, 2H), 3.79 (dd, *J* = 11.7, 7.2 Hz, 1 H), 3.69 (dd, *J* = 12.8, 4.6 Hz, 1 H), 3.64 (dd, *J* = 11.7, 5.1 Hz, 1 H), 3.58 - 3.51 (m, 1 H), 3.47 (dd, *J* = 10.8, 7.4 Hz, 1 H), 3.16 - 2.98 (m, 3H), 2.29 (s, 6H).

Example 233: 2-(4,6-Dimethylpyrimidin-2-yl)-5-{[2-(trifluoromethyl)pyridin-3-yl]carbonyl}octahydropyrrolo[3,4-c]pyrrole.

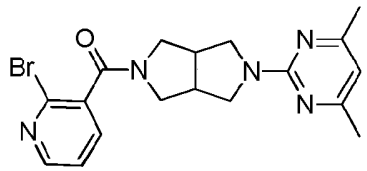
[0830]



[0831] The title compound was prepared in a manner analogous to Example 15 utilizing Intermediate 23 and 2-(trifluoromethyl)nicotinic acid. MS (ESI): mass calculated for $C_{19}H_{20}F_3N_5O$, 391.4; m/z found 392.9 $[M+H]^+$. ^1H NMR (400 MHz, $CDCl_3$): 8.77 (dd, *J* = 4.7, 1.0 Hz, 1 H), 7.74 (d, *J* = 6.9 Hz, 1 H), 7.55 (dd, *J* = 12.4, 6.2 Hz, 1 H), 6.31 (s, 1 H), 3.99 (dd, *J* = 12.8, 7.7 Hz, 1 H), 3.90 (dd, *J* = 11.7, 7.6 Hz, 1 H), 3.80 (dd, *J* = 11.6, 7.3 Hz, 1 H), 3.71 - 3.57 (m, 2H), 3.50 - 3.41 (m, 2H), 3.16 - 3.06 (m, 2H), 3.06-2.97 (m, 1 H), 2.34 (s, 5H).

Example 234: (2-Bromopyridin-3-yl)(5-(4,6-dimethylpyrimidin-2-yl)hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl)methanone.

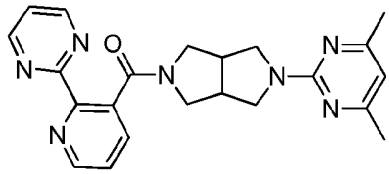
[0832]



[0833] The title compound was prepared in a manner analogous to Example 1 utilizing Intermediate 23 and 2-bromopyridine-3-carboxylic acid. MS (ESI): mass calculated for $C_{18}H_{20}BrN_5O$, 401.09; m/z found 402.9 $[M+H]^+$. ^1H NMR (600 MHz, $CDCl_3$): 8.41 (dd, *J* = 4.7, 1.8, 1 H), 7.66 - 7.54 (m, 1 H), 7.34 (dd, *J* = 7.4, 4.8, 1 H), 6.38 - 6.24 (m, 1 H), 3.94 (dd, *J* = 12.1, 7.6, 2H), 3.80 (dd, *J* = 11.5, 7.3, 1 H), 3.74 - 3.46 (m, 4H), 3.31 - 3.01 (m, 3H), 2.40 - 2.23 (m, 6H).

Example 235: (5-(4,6-Dimethylpyrimidin-2-yl)hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl)(2-(pyrimidin-2-yl)pyridin-3-yl)methanone.

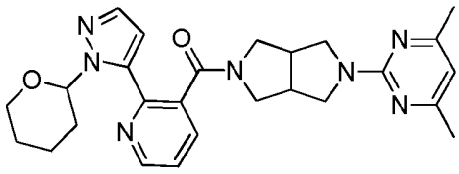
[0834]



[0835] To a solution of (2-bromopyridin-3-yl)(5-(4,6-dimethylpyrimidin-2-yl)hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl)methanone (Example 234) (50 mg, 0.14 mmol), 2-tributylstannylpyrimidine (50 mg, 0.14 mmol), and copper iodide (2.6 mg, 0.014 mmol) in 1,4 dioxane (1 mL) was added $Pd(PPh_3)_4$ (16 mg, 0.014 mmol). The reaction was irradiated in a microwave reactor at 160 °C for one hour. The resulting solution was filtered through Celite®, washed with DCM, and concentrated. Purification (FCC) ($MeOH$ (NH_3)/DCM) gave the title compound (35 mg, 64%). MS (ESI): mass calculated for $C_{22}H_{23}N_7O$, 401.20; m/z found 402.2 $[M+H]^+$. ^1H NMR (500 MHz, $CDCl_3$): 8.85 (s, 3H), 7.70 (d, *J* = 6.7, 1 H), 7.48 - 7.42 (m, 1 H), 7.21 (d, *J* = 4.4, 1 H), 6.32 - 6.24 (m, 1 H), 3.93 - 3.79 (m, 2H), 3.75 - 3.61 (m, 3H), 3.52 (s, 1 H), 3.52 - 3.42 (m, 1 H), 3.17 (dd, *J* = 10.8, 5.0, 1 H), 3.09 - 2.88 (m, 2H), 2.37 - 2.22 (m, 6H).

Example 236: (5-(4,6-Dimethylpyrimidin-2-yl)hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl)(2-(1-(tetrahydro-2H-pyran-2-yl)-1H-pyrazol-5-yl)pyridin-3-yl)methanone.

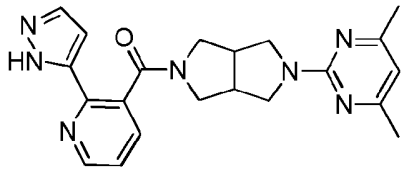
[0836]



[0837] To a solution of (2-bromopyridin-3-yl)(5-(4,6-dimethylpyrimidin-2-yl)hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl)methanone (Example 234) (50 mg, 0.12 mmol), 4-(terahydropyran-2H-yl)-1H pyrazole-5 boronic acid pinacol ester (35 mg, 0.12 mmol), TBAB (4.0 mg, 0.012 mmol), and $PdCl_2(dppf)$ (10 mg, 0.012 mmol) in toluene (0.6 mL) was added 2N aq. Na_2CO_3 (0.12 ml, 0.25 mmol). The reaction was irradiated in a microwave reactor at 110 °C for one hour. The resulting solution was filtered through Celite®, washed with DCM, and concentrated. Purification (FCC) ($MeOH$ (NH_3)/DCM) gave the title compound (52 mg, 88%). MS (ESI): mass calculated for $C_{26}H_{31}N_7O_2$, 473.25; m/z found 474.2 $[M+H]^+$. ^1H NMR (500 MHz, $CDCl_3$): 8.72 (dd, *J* = 4.7, 1.8, 1 H), 7.76 (dd, *J* = 8.0, 1.7, 1 H), 7.62 - 7.45 (m, 1 H), 7.34 (ddd, *J* = 7.7, 4.8, 1.5, 1H), 6.56 (dd, *J* = 18.2, 9.1, 1H), 6.33 - 6.23 (m, 1H), 3.91 - 3.71 (m, 2H), 3.72 - 3.53 (m, 3H), 3.53 - 3.36 (m, 2H), 3.36 - 3.06 (m, 3H), 2.98 - 2.70 (m, 3H), 2.65 (d, *J* = 6.4, 1H), 2.51 (d, *J* = 10.0, 1 H), 2.28 (d, *J* = 9.8, 6H), 2.18 - 2.01 (m, 2H), 1.94 (s, 3H).

Example 237: (2-(1H-Pyrazol-5-yl)pyridin-3-yl)(5-(4,6-dimethylpyrimidin-2-yl)hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl)methanone.

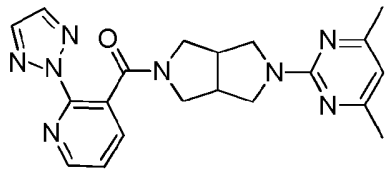
[0838]



[0839] To a solution of (5-(4,6-dimethylpyrimidin-2-yl)hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl)(2-(1-(tetrahydro-2H-pyran-2-yl)-1H-pyrazol-5-yl)pyridin-3-yl)methanone (Example 236) (210 mg, 0.43 mmol) in THF (10 mL) and H_2O (1 mL) was added 4 N aq. HCl (1 mL). The reaction was let stir for 2 hours, neutralized with 3 N aq. NaOH, and extracted with DCM (3 x 20 mL). The organics were combined, dried with Na_2SO_4, and concentrated. Purification (FCC) (MeOH (NH_3)/DCM) gave the title compound (128 mg, 73%) (MS (ESI): mass calculated for $C_{21}H_{23}N_7O$, 389.20; m/z found 390.2 $[M+H]^+$. ^1H NMR (500 MHz, $CDCl_3$): 8.68 - 8.59 (m, 1 H), 7.63 (d, *J* = 9.1, 2H), 7.32 - 7.20 (m, 1 H), 6.80 (d, *J* = 2.2, 1 H), 6.33 - 6.19 (m, 1 H), 3.92 - 3.55 (m, 5H), 3.54 - 2.78 (m, 5H), 2.37 - 2.24 (m, 6H).

Example 238: (2-(2H-1,2,3-Triazol-2-yl)pyridin-3-yl)(5-(4,6-dimethylpyrimidin-2-yl)hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl)methanone.

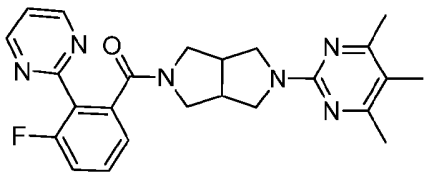
[0840]



[0841] To a solution of (2-bromopyridin-3-yl)(5-(4,6-dimethylpyrimidin-2-yl)hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl)methanone (Example 234) (150 mg, 0.37 mmol), 1 H-1,2,3 triazole (43 μL, 0.75 mmol), $CsCO_3$ (247 mg, 0.75 mmol), in H_2O (2 μL) and 1,4 dioxane (2 mL) was added (R,R)-(-)-*N,N'*-dimethyl-1,2-cyclohexyldiamine (12 μL, 0.75 mmol) and CuI (3.5 mg, 0.86 mmol). The reaction mixture was irradiated in a microwave reactor at 160 °C for 2 h. The resulting solution was filtered through Celite®, washed with DCM, and concentrated. Purification (FCC)(MeOH (NH_3)/DCM) gave the title compound (8 mg, 6%). MS (ESI): mass calculated for $C_{20}H_{22}N_8O$, 390.19; m/z found 391.2 $[M+H]^+$. ^1H NMR (400 MHz, $CDCl_3$): 8.65 (dd, *J* = 4.8, 1.8, 1 H), 7.83 (dt, *J* = 13.3, 6.6, 2H), 7.43 (dt, *J* = 7.6, 4.5, 1 H), 6.38 - 6.23 (m, 2H), 4.02 - 3.28 (m, 6H), 3.10 - 3.06 (m, 4H), 2.42 - 2.22 (m, 6H).

Example 239: (3-Fluoro-2-(pyrimidin-2-yl)phenyl)(5-(4,5,6-trimethylpyrimidin-2-yl)hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl)methanone.

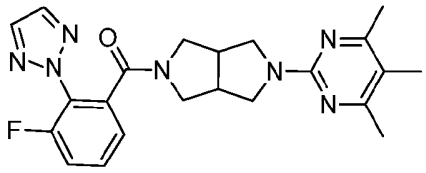
[0842]



[0843] The title compound was prepared in a manner analogous to Example 15, utilizing Intermediate 42 and 3-fluoro-2-(pyrimidin-2-yl)benzoic acid. MS (ESI): mass calculated for $C_{24}H_{25}FN_6O$, 432.21; m/z found 433.3 $[M+H]^+$. ^1H NMR (600 MHz, $CDCl_3$): 8.41 (dd, *J* = 4.7, 1.8, 2H), 7.66 - 7.54 (m, 2H), 7.34 (dd, *J* = 7.4, 4.8, 2H), 3.94 (dd, *J* = 12.1, 7.6, 2H), 3.80 (dd, *J* = 11.5, 7.3, 1 H), 3.74 - 3.46 (m, 4H), 3.31 - 3.01 (m, 3H), 2.40 - 2.13 (m, 9H).

Example 240: (3-Fluoro-2-(2H-1,2,3-triazol-2-yl)phenyl)(5-(4,5,6-trimethylpyrimidin-2-yl)hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl)methanone.

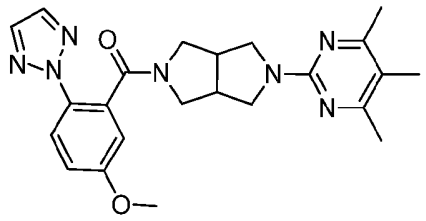
[0844]



[0845] The title compound was prepared in a manner analogous to Example 15, utilizing Intermediate 42 and 3-fluoro-2-(2H-1,2,3-triazol-2-yl)benzoic acid. MS (ESI): mass calculated for $C_{22}H_{24}FN_7O$, 421.20; m/z found 422.2 $[M+H]^+$. ^1H NMR (500 MHz, $CDCl_3$): 7.82 - 7.77 (m, 2H), 7.51 - 7.44 (m, 1 H), 7.31 (ddd, *J* = 9.8, 8.4, 1.3, 1 H), 7.25 - 7.20 (m, 1 H), 3.86 - 3.60 (m, 3H), 3.59 - 3.42 (m, 4H), 3.14 (dd, *J* = 10.9, 5.3, 1 H), 2.94 (dd, *J* = 10.9, 7.1, 2H), 2.38 - 2.27 (m, 6H), 2.07 (d, *J* = 7.2, 3H).

Example 241: (5-Methoxy-2-(2H-1,2,3-triazol-2-yl)phenyl)(5-(4,5,6-trimethylpyrimidin-2-yl)hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl)methanone.

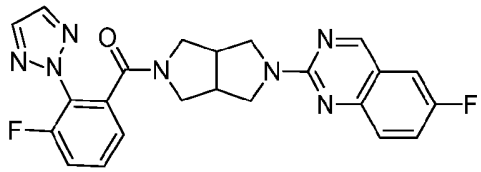
[0846]



[0847] The title compound was prepared in a manner analogous to Example 15, utilizing Intermediate 42 and 5-methoxy-2-(2H-1,2,3-triazol-2-yl)benzoic acid. MS (ESI): mass calculated for $C_{23}H_{27}N_7O_2$, 433.22; m/z found 434.2 $[M+H]^+$. ^1H NMR (500 MHz, $CDCl_3$): 7.84 (d, *J* = 9.0, 1 H), 7.69 (s, 2H), 7.01 (dd, *J* = 9.0, 2.8, 1 H), 6.91 (d, *J* = 2.8, 1 H), 3.91 - 3.74 (m, 5H), 3.70 - 3.58 (m, 2H), 3.55 (dd, *J* = 11.4, 5.2, 1H), 3.47 - 3.28 (m, 2H), 3.04 - 2.82 (m, 3H), 2.41 - 2.25 (m, 5H), 2.13 - 2.01 (m, 4H).

Example 242: (3-Fluoro-2-(2H-1,2,3-triazol-2-yl)phenyl)(5-(6-fluoroquinazolin-2-yl)hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl)methanone.

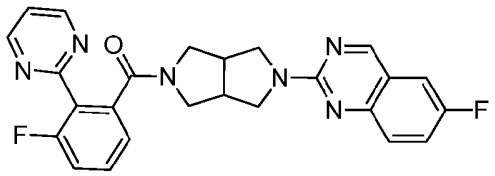
[0848]



[0849] The title compound was prepared in a manner analogous to Example 15, utilizing Intermediate 43 and 3-fluoro-2-(2H-1,2,3-triazol-2-yl)benzoic acid. MS (ESI): mass calculated for $C_{23}H_{19}F_2N_7O$, 447.16; m/z found 448.1 $[M+H]^+$. ^1H NMR (500 MHz, $CDCl_3$): 8.99 (s, 1 H), 7.77 (d, *J* = 15.8, 2H), 7.61 (dd, *J* = 11.0, 5.5, 1 H), 7.53 - 7.43 (m, 2H), 7.37 - 7.29 (m, 2H), 7.24 (s, 1 H), 3.93 (d, *J* = 9.9, 1 H), 3.79 (dd, *J* = 12.3, 7.4, 2H), 3.71 - 3.62 (m, 1 H), 3.62 (s, 3H), 3.20 (dd, *J* = 11.0, 5.3, 1 H), 3.12 - 2.98 (m, 2H).

Example 243: (3-Fluoro-2-(pyrimidin-2-yl)phenyl)(5-(6-fluoroquinazolin-2-yl)hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl)methanone.

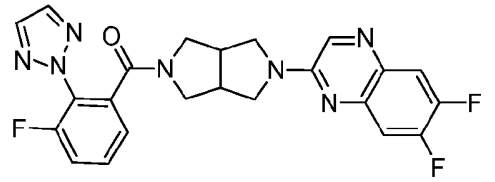
[0850]



[0851] The title compound was prepared in a manner analogous to Example 15, utilizing Intermediate 43 and 3-fluoro-2-(pyrimidin-2-yl)benzoic acid. MS (ESI): mass calculated for $C_{25}H_{20}F_2N_6O$, 458.17; m/z found 459.1 $[M+H]^+$. ^1H NMR (500 MHz, $CDCl_3$): 8.98 (d, *J* = 8.1, 1 H), 8.82 - 8.74 (m, 2H), 7.61 (dt, *J* = 12.7, 6.4, 1 H), 7.53 - 7.41 (m, 2H), 7.31 (td, *J* = 8.0, 2.7, 1 H), 7.25 - 7.18 (m, 2H), 7.15 (t, *J* = 4.9, 1 H), 4.00 - 3.88 (m, 1 H), 3.89 - 3.69 (m, 3H), 3.68 - 3.52 (m, 3H), 3.36 (dd, *J* = 10.9, 4.6, 1 H), 3.14 - 2.97 (m, 2H).

Example 244: (5-(6,7-Difluoroquinoxalin-2-yl)hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl)(3-fluoro-2-(2H-1,2,3-triazol-2-yl)phenyl)methanone.

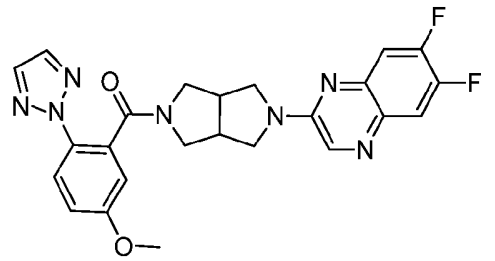
[0852]



[0853] The title compound was prepared in a manner analogous to Example 15, utilizing Intermediate 44 and 3-fluoro-2-(2H-1,2,3-triazol-2-yl)benzoic acid. MS (ESI): mass calculated for $C_{23}H_{18}F_3N_7O$, 465.15; m/z found 466.1 $[M+H]^+$. ^1H NMR (500 MHz, $CDCl_3$): 8.28 (s, 1 H), 7.75 (d, *J* = 20.8, 2H), 7.65 (dd, *J* = 10.6, 8.4, 1 H), 7.50 (tt, *J* = 9.6, 4.8, 1 H), 7.43 (dd, *J* = 11.4, 8.0, 1 H), 7.39 - 7.31 (m, 1 H), 7.25 (dd, *J* = 12.5, 4.9, 1 H), 4.00 - 3.86 (m, 1 H), 3.81 (dd, *J* = 10.0, 5.6, 2H), 3.66 - 3.49 (m, 4H), 3.32 - 3.16 (m, 3H).

Example 245: (5-(6,7-Difluoroquinoxalin-2-yl)hexahydropyrrolo[3,4-c]pyrrol-2(1 H)-yl)(5-methoxy-2-(2H-1,2,3-triazol-2-yl)phenyl)methanone.

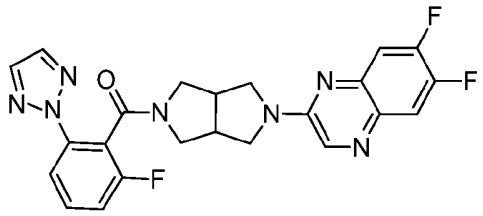
[0854]



[0855] The title compound was prepared in a manner analogous to Example 15, utilizing Intermediate 44 and 5-methoxy-2-(2H-1,2,3-triazol-2-yl)benzoic acid. MS (ESI): mass calculated for $C_{24}H_{21}F_2N_7O_2$, 477.2; m/z found 478.1 $[M+H]^+$. ^1H NMR (500 MHz, $CDCl_3$): 8.25 (s, 1 H), 7.84 (t, *J* = 7.6, 1 H), 7.64 (dt, *J* = 19.7, 10.8, 3H), 7.42 (dd, *J* = 11.4, 8.0, 1H), 7.03 (dd, *J* = 9.0, 2.8, 1 H), 6.92 (d, *J* = 2.8, 1 H), 3.97 - 3.84 (m, 5H), 3.64 (dd, *J* = 18.2, 14.6, 5H), 3.12 (dd, *J* = 19.8, 8.6, 3H).

Example 246: (5-(6,7-Difluoroquinoxalin-2-yl)hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl)(2-fluoro-6-(2H-1,2,3-triazol-2-yl)phenyl)methanone.

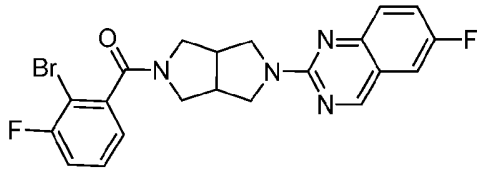
[0856]



[0857] The title compound was prepared in a manner analogous to Example 15, utilizing Intermediate 44 and 2-fluoro-6-(2H-1,2,3-triazol-2-yl)benzoic acid. MS (ESI): mass calculated for $C_{23}H_{18}F_3N_7O$, 465.2; m/z found 466.1 $[M+H]^+$. ^1H NMR (500 MHz, $CDCl_3$): 8.32 - 8.24 (m, 1 H), 7.90 - 7.79 (m, 2H), 7.68 (s, 1 H), 7.65 (ddd, *J* = 10.7, 8.5, 4.2, 1 H), 7.55 - 7.38 (m, 2H), 7.22 - 7.10 (m, 1 H), 4.13 - 3.48 (m, 7H), 3.40 - 3.05 (m, 3H).

Example 247: (2-Bromo-3-fluorophenyl)(5-(6-fluoroquinazolin-2-yl)hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl)methanone.

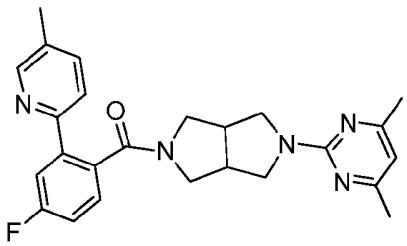
[0858]



[0859] The title compound was prepared in a manner analogous to Example 15, utilizing Intermediate 43 and 2-bromo-3-fluorobenzoic acid. MS (ESI): mass calculated for $C_{21}H_{17}BrF_2N_4O$, 458.1; m/z found 459.0 $[M+H]^+$. ^1H NMR (400 MHz, $CDCl_3$): 8.95 (d, *J* = 19.8, 1H), 8.01 (s, 1 H), 7.59 (dt, *J* = 13.3, 6.7, 1 H), 7.52 - 7.40 (m, 1 H), 7.40 - 7.28 (m, 1 H), 7.18 - 7.05 (m, 2H), 4.01 (dt, *J* = 12.8, 8.4, 2H), 3.95 - 3.85 (m, 1 H), 3.80 - 3.48 (m, 4H), 3.27 - 3.04 (m, 3H).

Example 248: (5-(4,6-dimethylpyrimidin-2-yl)hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl)(4-fluoro-2-(5-methylpyridin-2-yl)phenyl)methanone.

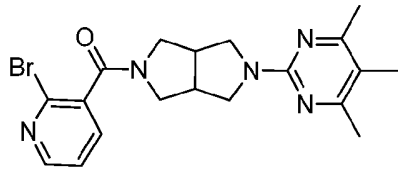
[0860]



[0861] (5-(4,6-Dimethylpyrimidin-2-yl)hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl)(4-fluoro-2-(5-methylpyridin-2-yl)phenyl)methanone. The title compound was prepared in a manner analogous to Intermediate 50, Step A, substituting (5-(4,6-dimethylpyrimidin-2-yl)hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl)(4-fluoro-2-iodophenyl)methanone for 2-iodo-3-fluorobenzonitrile, 5-methyl-2-(tributylstannyl)pyridine for 2-tributylstannane pyrimidine, dioxane for DME and heating to 130°C for 60 minutes. The reactions were filtered through celite, rinsed with EtOAc and then concentrated and purified on RP agilent HPLC and fractions lyophilized. MS (ESI) mass calcd. for $C_{25}H_{26}FN_5O$, 431.21; found 432.2 $[M+H]^+$.

Example 249: (2-Bromopyridin-3-yl)(5-(4,5,6-trimethylpyrimidin-2-yl)hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl)methanone.

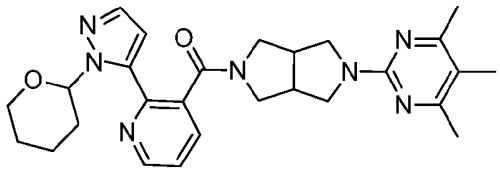
[0862]



[0863] The title compound was prepared in a manner analogous to Example 1 utilizing Intermediate 42 and 2-bromopyridine-3-carboxylic acid. MS (ESI): mass calculated for $C_{19}H_{22}BrN_5O$, 415.10; m/z found 416.1 $[M+H]^+$. ^1H NMR (600 MHz, $CDCl_3$): 8.44 (dd, *J* = 4.7, 1.6, 1 H), 7.33 (dd, *J* = 7.6, 4.7, 1 H), 6.38 - 6.24 (m, 1 H), 3.94 - 3.90 (m, 2H), 3.88 - 3.84 (m, 1 H), 3.74 - 3.50 (m, 4H), 3.31 - 3.01 (m, 3H), 2.40 - 2.23 (m, 6H), 2.12 - 2.06 (m, 3H).

Example 250: (2-(1-(Tetrahydro-2H-pyran-2-yl)-1H-pyrazol-5-yl)pyridin-3-yl)(5-(4,5,6-trimethylpyrimidin-2-yl)hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl)methanone.

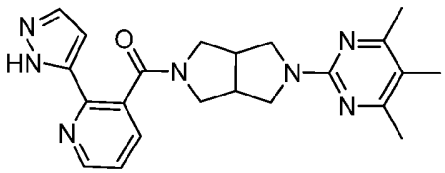
[0864]



[0865] The title compound was prepared in a manner similar to Example 236, utilizing Example 249 and 4-(terahydropyran-2H-yl)-1H pyrazole-5 boronic acid pinacol ester. MS (ESI): mass calculated for $C_{27}H_{33}N_7O_2$, 487.27; m/z found 488.2 $[M+H]^+$. ^1H NMR (500 MHz, $CDCl_3$): 8.78 - 8.72 (m, 1 H), 7.80 - 7.75 (m, 1 H), 7.62 - 7.45 (m, 1 H), 7.34 (dd, *J* = 4.8, 1.5, 1 H), 6.33 - 6.23 (m, 1 H), 3.91 - 3.78 (m, 2H), 3.72 - 3.53 (m, 3H), 3.53 - 3.36 (m, 2H), 3.36 - 3.15 (m, 3H), 2.98 - 2.70 (m, 3H), 2.65 (d, *J* = 6.8, 1 H), 2.38 - 2.27 (m, 6H), 2.10 - 2.06 (m, 3H), 2.18 - 2.01 (m, 2H), 1.94 (s, 3H).

Example 251: (2-(1H-Pyrazol-5-yl)pyridin-3-yl)(5-(4,5,6-trimethylpyrimidin-2-yl)hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl)methanone.

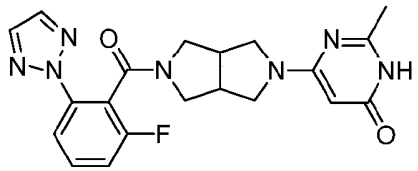
[0866]



[0867] The title compound was prepared in a manner similar to Example 237, utilizing (2-(1-(tetrahydro-2H-pyran-2-yl)-1 H-pyrazol-5-yl)pyridin-3-yl)(5-(4,5,6-trimethylpyrimidin-2-yl)hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl)methanone (Example 250). MS (ESI): mass calculated for $C_{23}H_{18}F_3N_7O$, 403.21; m/z found 404.2 $[M+H]^+$. ^1H NMR (500 MHz, $CDCl_3$): 11.90 (s, 1 H), 8.65 (dd, *J* = 4.7, 1.5, 1H), 7.65 (dd, *J* = 7.7, 1.6, 1 H), 7.50 (d, *J* = 7.0, 1 H), 7.34 - 7.21 (m, 1 H), 6.81 (s, 1H), 3.66-3.60 (m, 6H), 3.26 (s, 4H), 2.39 - 2.25 (m, 6H), 2.09 (d, *J* = 40.1, 3H).

Example 252: 6-[5-{[2-Fluoro-6-(2H-1,2,3-triazol-2-yl)phenyl]carbonyl}hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl]-2-methylpyrimidin-4(3H)-one.

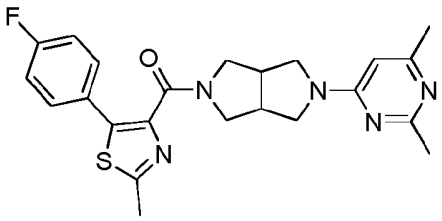
[0868]



[0869] To a solution of Intermediate 16 (35.3 mg, 0.117 mmol) in n-butanol (0.5 mL) was added triethylamine (0.065 mL, 0.47 mmol) and 6-chloro-2-methylpyrimidin-4-ol (33.9 mg, 0.234 mmol). The mixture was heated to 150 °C in the microwave for 18 minutes. The reaction was concentrated and purified by reverse phase HPLC to give the title compound (21.4 mg, 45%). MS (ESI): mass calculated for $C_{20}H_{20}FN_7O_2$, 409.4; m/z found $[M+H]^+$ 410.2. ^1H NMR (400 MHz, $CDCl_3$): 7.91 - 7.76 (m, 3H), 7.54 - 7.42 (m, 1 H), 7.15 (t, *J* = 8.5 Hz, 1 H), 4.07 - 2.94 (m, 11 H), 2.37 (d, *J* = 8.8 Hz, 3H).

Example 253: 2-(2,6-Dimethylpyrimidin-4-yl)-5-{[5-(4-fluorophenyl)-2-methyl-1,3-thiazol-4-yl]carbonyl}octahydropyrrolo[3,4-c]pyrrole.

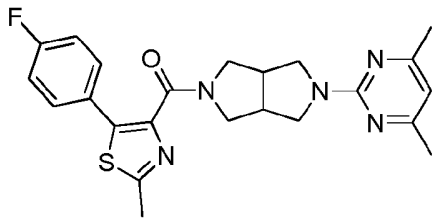
[0870]



[0871] To a solution of Intermediate 48 (15.8 mg, 0.048 mmol) was added DMF (0.4 mL), 4-chloro-2,6-dimethylpyrimidine (8.2 mg, 0.057 mmol) and cesium carbonate (38.8 mg, 0.119 mmol). The mixture was heated to 100 °C for 18 hours, diluted with water and extracted with ethyl acetate. The organic layer was dried over Na_2SO_4 and concentrated. The residue was purified by reverse phase HPLC to give the title compound (12.9 mg, 62%). MS (ESI): mass calculated for $C_{23}H_{24}FN_5OS$, 437.5; m/z found $[M+H]^+$ 438.2. ^1H NMR (400 MHz, $CDCl_3$): 7.51 - 7.41 (m, 2H), 7.06 - 6.95 (m, 2H), 6.29 (s, 1 H), 3.892-3.76 (m, 2H), 3.73 - 3.51 (m, 3H), 3.44 (dd, *J* = 11.6, 5.0 Hz, 1 H), 3.32 (dd, *J* = 11.6, 4.5 Hz, 1 H), 3.10 (dd, *J* = 11.3, 5.3 Hz, 1 H), 3.02 - 2.80 (m, 2H), 2.70 (s, 3H), 2.31 (d, *J* = 20.0 Hz, 6H).

Example 254: 2-(4,6-Dimethylpyrimidin-2-yl)-5-{[5-(4-fluorophenyl)-2-methyl-1,3-thiazol-4-yl]carbonyl}octahydropyrrolo[3,4-c]pyrrole.

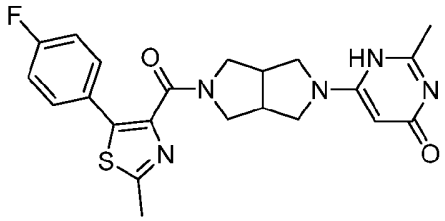
[0872]



[0873] The title compound was prepared in a manner analogous to Example 253 substituting 2-chloro-4,6-dimethylpyrimidine for 4-chloro-2,6-dimethylpyrimidine. MS (ESI): mass calculated for $C_{23}H_{24}FN_5OS$, 437.5; m/z found $[M+H]^+$ 438.2. ^1H NMR (400 MHz, $CDCl_3$): 7.53 - 7.41 (m, 2H), 7.06 - 6.97 (m, 2H), 6.29 (s, 1 H), 3.90 - 3.76 (m, 2H), 3.69 - 3.49 (m, 3H), 3.44 (dd, *J* = 11.6, 5.0 Hz, 1 H), 3.32 (dd, *J* = 11.6, 4.5 Hz, 1 H), 3.10 (dd, *J* = 11.3, 5.3 Hz, 1 H), 3.02 - 2.82 (m, 2H), 2.70 (s, 3H), 2.29 (s, 6H).

Example 255: 6-[5-{[5-(4-Fluorophenyl)-2-methyl-1,3-thiazol-4-yl]carbonyl}hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl]-2-methylpyrimidin-4(3H)-one.

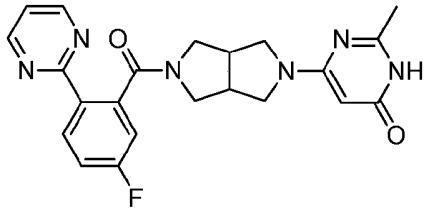
[0874]



[0875] The title compound was prepared in a manner analogous to Example 252 substituting Intermediate 48 for Intermediate 16. MS (ESI): mass calculated for $C_{22}H_{22}FN_5O_2S$, 439.5; m/z found 440.1 $[M+H]^+$. ^1H NMR (400 MHz, $CDCl_3$): 12.77 (s, 1 H), 7.50 - 7.43 (m, 2H), 7.09 - 7.02 (m, 2H), 3.90-3.82 (m, 2H), 3.66 - 3.49 (m, 4H), 3.29 - 2.82 (m, 5H), 2.71 (s, 3H), 2.36 (s, 3H).

Example 256: 6-{5-[(5-Fluoro-2-pyrimidin-2-ylphenyl)carbonyl]hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl}-2-methylpyrimidin-4(3H)-one.

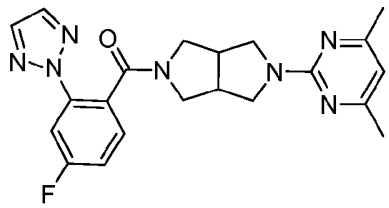
[0876]



[0877] The title compound was prepared in a manner analogous to Example 252, substituting (5-fluoro-2-(pyrimidin-2-yl)phenyl)(hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl)methanone for Intermediate 16. MS (ESI): mass calculated for $C_{22}H_{21}FN_6O_2$, 420.5; m/z found 421.2 $[M+H]^+$. ^1H NMR (400 MHz, $CDCl_3$): 12.85 (s, 1 H), 8.73 (d, J = 4.9 Hz, 2H), 8.35 (dd, J = 8.8, 5.6 Hz, 1 H), 7.24 - 7.13 (m, 2H), 7.07 (dd, J = 8.4, 2.6 Hz, 1 H), 3.90 (dd, J = 12.6, 7.7 Hz, 1 H), 3.76-3.65 (m, 3H), 3.55-3.48 (m, 2H), 3.24 - 2.90 (m, 4H), 2.36 (d, J = 8.7 Hz, 3H).

Example 257: (5-(4,6-Dimethylpyrimidin-2-yl)hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl)(4-fluoro-2-(2H-1,2,3-triazol-2-yl)phenyl)methanone.

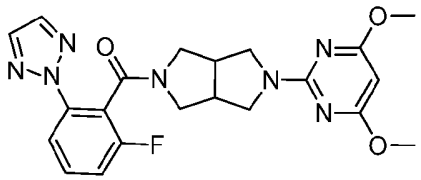
[0878]



[0879] The title compound was prepared in a manner analogous to Example 15, utilizing Intermediate 23 and Intermediate 4. MS (ESI): mass calculated for $C_{23}H_{24}FN_5O$, 407.19; m/z found 408.2 $[M+H]^+$. ^1H NMR (400 MHz, $CDCl_3$): 7.80 - 7.68 (m, 3H), 7.39 (dd, J = 8.4, 5.8, 1 H), 7.17 - 7.09 (m, 1 H), 6.40 (s, 1 H), 6.17 (s, 2H), 3.89 (dd, J = 12.7, 7.6, 2H), 3.69 (dd, J = 12.8, 4.3, 2H), 3.61 - 3.48 (m, 2H), 3.45 - 3.32 (m, 2H), 3.25 (dd, J = 9.5, 5.0, 2H), 1.25 (s, 6H).

Example 258: (5-(4,6-Dimethoxypyrimidin-2-yl)hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl)(2-fluoro-6-(2H-1,2,3-triazol-2-yl)phenyl)methanone.

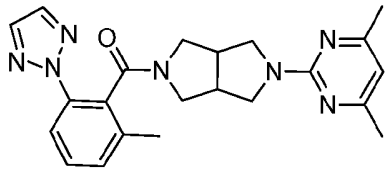
[0880]



[0881] The title compound was prepared in a manner analogous to Example 15, utilizing Intermediate 45 and Intermediate 12. MS (ESI): mass calculated for $C_{21}H_{22}FN_7O_3$, 439.18; m/z found 440.2 $[M+H]^+$. ^1H NMR (400 MHz, $CDCl_3$): 7.89 - 7.80 (m, 2H), 7.73 (s, 1 H), 7.53 - 7.43 (m, 1 H), 7.15 (tdd, *J* = 8.4, 3.7, 0.9, 1 H), 5.39 (d, *J* = 2.4, 1 H), 4.02 - 3.48 (m, 13H), 3.31 - 2.89 (m, 3H).

Example 259: (5-(4,6-Dimethylpyrimidin-2-yl)hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl)(2-methyl-6-(2H-1,2,3-triazol-2-yl)phenyl)methanone.

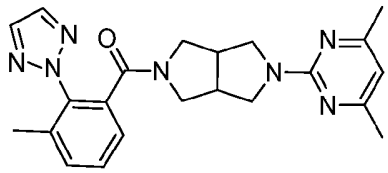
[0882]



[0883] The title compound was prepared in a manner analogous to Example 15, utilizing Intermediate 23 and Intermediate 11. MS (ESI): mass calculated for $C_{22}H_{25}N_7O$, 403.21; m/z found 404.2 $[M+H]^+$. ^1H NMR (400 MHz, $CDCl_3$): 7.84 - 7.75 (m, 2H), 7.69 (s, 1 H), 7.38 (td, *J* = 7.9, 2.4, 1 H), 7.25 - 7.22 (m, 1 H), 6.29 (d, *J* = 3.8, 1 H), 3.98 - 3.30 (m, 8H), 3.01 (dd, *J* = 11.5, 6.6, 2H), 2.30 (d, *J* = 3.6, 3H), 1.57 (s, 6H).

Example 260: (5-(4,6-Dimethylpyrimidin-2-yl)hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl)(3-methyl-2-(2H-1,2,3-triazol-2-yl)phenyl)methanone.

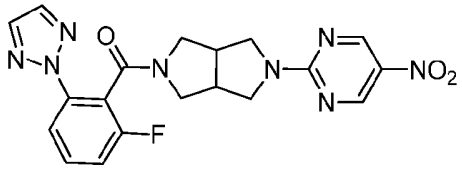
[0884]



[0885] The title compound was prepared in a manner analogous to Example 15, utilizing Intermediate 23 and 3-methyl-2-(2H-1,2,3-triazol-2-yl)benzoic acid (Intermediate 82). MS (ESI): mass calculated for $C_{22}H_{25}N_7O$, 403.21; m/z found 404.2 $[M+H]^+$. ^1H NMR (400 MHz, $CDCl_3$): 7.76 (s, 1 H), 7.44 - 7.34 (m, 2H), 7.25 (s, 1 H), 7.24 (d, *J* = 1.9, 1 H), 6.30 (s, 1 H), 3.88 - 3.40 (m, 8H), 3.23 (dd, *J* = 11.0, 4.9, 1 H), 3.00 - 2.83 (m, 1 H), 2.36 - 2.26 (m, 3H), 2.24 (d, *J* = 16.1, 3H), 1.63 (s, 3H).

Example 261: (2-Fluoro-6-(2H-1,2,3-triazol-2-yl)phenyl)(5-(5-nitropyrimidin-2-yl)hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl)methanone.

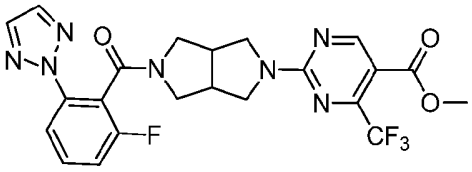
[0886]



[0887] The title compound was prepared in a manner analogous to Example 15, utilizing Intermediate 46 and Intermediate 12. MS (ESI): mass calculated for $C_{19}H_{17}FN_9O_3$, 424.14; m/z found 425.2 $[M+H]^+$. ^1H NMR (400 MHz, $CDCl_3$): 9.10 (ddd, *J* = 9.9, 5.7, 3.3, 2H), 7.90 - 7.79 (m, 2H), 7.74 (d, *J* = 6.6, 1 H), 7.55 - 7.44 (m, 1 H), 7.22 - 7.10 (m, 1 H), 4.13 - 3.60 (m, 7H), 3.40 - 3.07 (m, 3H).

Example 262: Methyl 2-(5-(2-fluoro-6-(2H-1,2,3-triazol-2-yl)benzoyl)hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl)-4-(trifluoromethyl)pyrimidine-5-carboxylate.

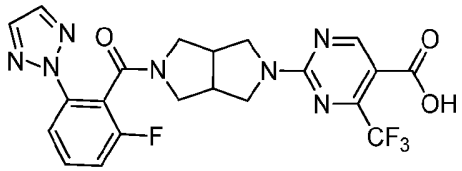
[0888]



[0889] A mixture of Intermediate 16 (30 mg, 0.9 mmol), methyl 2-chloro-4-(trifluoromethyl)pyrimidine-5-carboxylate (22 mg, 0.09 mmol), Cs_2CO_3 (92.4 mg, 0.28 mmol), in DMA (1 mL) was heated to 100 °C for 72 hours. The mixture was cooled to rt diluted with H_2O and extracted with EtOAc. The organics were combined, dried and concentrated under reduced pressure. Purification (FCC) (10% MeOH, 0.1 % NH_4OH in DCM/DCM) afforded the title compound (19 mg, 37%) MS (ESI): mass calculated for $C_{22}H_{19}F4N_7O_3$, 505.15; m/z found 506.2 $[M+H]^+$. ^1H NMR (400 MHz, $CDCl_3$): 8.98 - 8.85 (m, 1H), 7.92 - 7.78 (m, 2H), 7.73 (d, *J* = 2.8, 1 H), 7.54 - 7.42 (m, 1 H), 7.15 (td, *J* = 8.4, 4.9, 1 H), 4.15 - 3.45 (m, 11 H), 3.41 - 2.95 (m, 3H). The aqueous layer was acidified with 1 N HCl and extracted with EtOAc. The organics were combined, dried and concentrated under reduced pressure. Purification (FCC) (0-100% soln of 5% MeOH, 0.5% HOAc in DCM/DCM) to afford 2-(5-(2-fluoro-6-(2H-1,2,3-triazol-2-yl)benzoyl)hexahydropyrrolo[3,4-c]pyrrol-2(1 H)-yl)-4-(trifluoromethyl)pyrimidine-5-carboxylic acid (22 mg, 44%).

Example 263: 2-(5-(2-Fluoro-6-(2H-1,2,3-triazol-2-yl)benzoyl)hexahydropyrrolo[3,4-c]pyrrol-2(1 H)-yl)-4-(trifluoromethyl)pyrimidine-5-carboxylic acid.

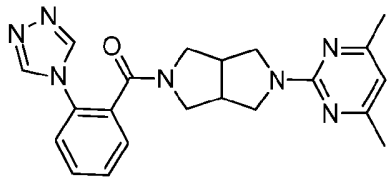
[0890]



[0891] The title compound was isolated from the synthesis of Example 262. MS (ESI): mass calculated for $C_{21}H_{17}F_4N_7O_3$, 491.13; m/z found 492.1 $[M+H]^+$. ^1H NMR (400 MHz, CD_3OD): 8.90 (t, *J* = 11.7, 1 H), 7.97 (s, 1 H), 7.94 - 7.79 (m, 2H), 7.69 - 7.58 (m, 1 H), 7.29 (dt, *J* = 25.1, 12.6, 1 H), 4.05 - 3.50 (m, 7H), 3.18 (tdd, *J* = 19.6, 13.8, 6.8, 3H).

Example 264: (2-(4H-1,2,4-Triazol-4-yl)phenyl)(5-(4,6-dimethylpyrimidin-2-yl)hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl)methanone.

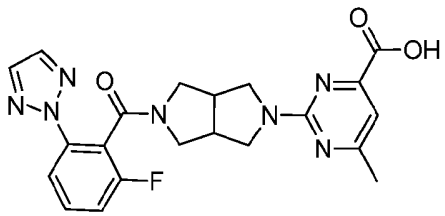
[0892]



[0893] The title compound was prepared in a manner analogous to Example 15, utilizing Intermediate 23 and 2-(4H-1,2,4-triazol-4-yl)benzoic acid. MS (ESI): mass calculated for $C_{22}H_{19}F_4N_7O_3$, 505.15; m/z found 506.2 $[M+H]^+$. ^1H NMR (400 MHz, $CDCl_3$): 8.49 (s, 2H), 7.54 (dd, *J* = 7.6, 1.9, 3H), 7.45 - 7.37 (m, 1 H), 6.31 (d, *J* = 11.3, 1 H), 3.88 - 3.65 (m, 4H), 3.50 (dd, *J* = 12.0, 4.4, 2H), 3.33 (dt, J = 11.2, 5.6, 1 H), 3.08 - 2.80 (m, 3H), 2.28 - 2.26 (m, 6H).

Example 265: 2-(5-(2-Fluoro-6-(2H-1,2,3-triazol-2-yl)benzoyl)hexahydropyrrolo[3,4-c]pyrrol-2(1 H)-yl)-6-methylpyrimidine-4-carboxylic acid.

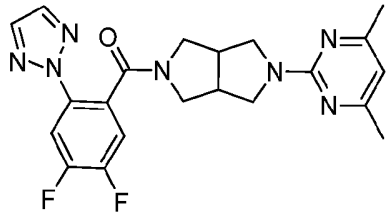
[0894]



[0895] The title compound was prepared in a manner analogous to Example 262, substituting methyl 2-chloro-6-methylpyrimidine-4-carboxylate for methyl 2-chloro-4-(trifluoromethyl)pyrimidine-5-carboxylate. MS (ESI): mass calculated for $C_{21}H_{20}FN_7O_3$, 437.16; m/z found 438.2 $[M+H]^+$. ^1H NMR (400 MHz, CD_3OD): 7.96 (d, *J* = 6.2, 1 H), 7.92 - 7.79 (m, 2H), 7.67 - 7.57 (m, 1 H), 7.29 (d, *J* = 8.4, 1 H), 7.09 (s, 1 H), 4.01 - 3.53 (m, 7H), 3.28 - 2.99 (m, 3H), 2.40 - 2.36 (m, 3H).

Example 266: (4,5-Difluoro-2-(4H-1,2,4-triazol-4-yl)phenyl)(5-(4,6-dimethylpyrimidin-2-yl)hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl)methanone.

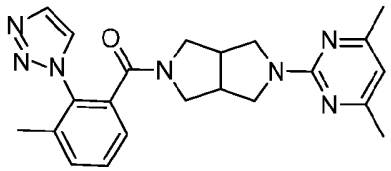
[0896]



[0897] The title compound was prepared in a manner analogous to Example 15, utilizing Intermediate 23 and 4,5-difluoro-2-(2H-1,2,3-triazol-2-yl)benzoic acid. MS (ESI): mass calculated for $C_{21}H_{21}F_2N_7O$, 425.18; m/z found 425.2 $[M+H]^+$. ^1H NMR (400 MHz, $CDCl_3$): 7.86 (dd, *J* = 10.8, 7.0, 1 H), 7.74 (s, 2H), 7.26 - 7.19 (m, 1 H), 6.30 (s, 1 H), 3.86 (dd, *J* = 11.8, 7.6, 2H), 3.66-3.50 (m, 5H), 3.10 - 2.86 (m, 3H), 2.36 - 2.23 (m, 6H).

Example 267: (5-(4,6-Dimethylpyrimidin-2-yl)hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl)(3-methyl-2-(1H-1,2,3-triazol-1-yl)phenyl)methanone.

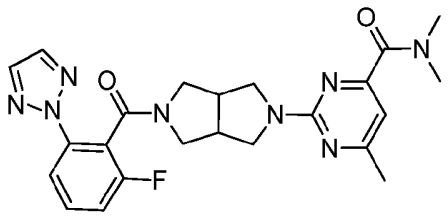
[0898]



[0899] The title compound was prepared in a manner analogous to Example 15, utilizing Intermediate 23 and 3-methyl-2-(1H-1,2,3-triazol-1-yl)benzoic acid. MS (ESI): mass calculated for $C_{22}H_{25}N_7O$, 403.21; m/z found 404.2 $[M+H]^+$. ^1H NMR (400 MHz, $CDCl_3$): 7.87 - 7.77 (m, 1 H), 7.52 - 7.38 (m, 2H), 7.25 (d, *J* = 4.7, 2H), 6.28 (s, 1 H), 3.76 (dd, *J* = 11.6, 7.2, 2H), 3.65 - 3.29 (m, 6H), 3.12 (dd, *J* = 11.1, 4.9, 1 H), 2.96 - 2.83 (m, 1 H), 2.29 (s, 6H), 2.15 (d, *J* = 18.1, 3H).

Example 268: 2-(5-(2-Fluoro-6-(2H-1,2,3-triazol-2-yl)benzoyl)hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl)-*N*,*N*,6-trimethylpyrimidine-4-carboxamide.

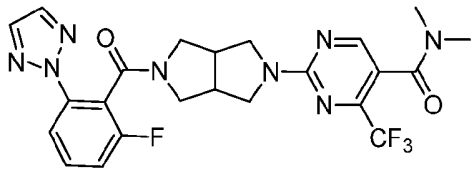
[0900]



[0901] The title compound was prepared using Example 265 in a manner analogous to Example 15 substituting dimethylamine for 2-(4,6-dimethyl-pyrimidin-2-yl)-octahydro-pyrrolo[3,4-c]pyrrole and EDCI for HATU in the last step. MS (ESI): mass calculated for $C_{23}H_{25}FN_8O_2$, 464.21; m/z found 464.4$[M+H]^+$. ^1H NMR (400 MHz, $CDCl_3$): 7.90 - 7.79 (m, 2H), 7.73 (s, 1 H), 7.53 - 7.41 (m, 1H), 7.18 - 7.09 (m, 1 H), 6.57 (d, *J* = 9.8, 1 H), 4.05 - 3.48 (m, 8H), 3.31 - 2.91 (m, 10H), 2.38 (s, 4H), 1.60 (s, 3H).

Example 269: 2-(5-(2-Fluoro-6-(2H-1,2,3-triazol-2-yl)benzoyl)hexahydropyrrolo[3,4-c]pyrrol-2(1 H)-yl)-N,N-dimethyl-4-(trifluoromethyl)pyrimidine-5-carboxamide.

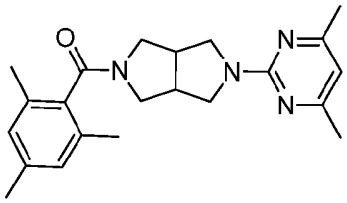
[0902]



[0903] The title compound was prepared using Example 263 in a manner analogous to Example 15 substituting dimethylamine for 2-(4,6-dimethyl-pyrimidin-2-yl)-octahydro-pyrrolo[3,4-c]pyrrole and EDCI for HATU in the last step. MS (ESI): mass calculated for $C_{23}H_{22}F_4N_8O_2$, 518.18; m/z found 518.2 $[M+H]^+$.

Example 270: (5-(4,6-Dimethylpyrimidin-2-yl)hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl)(mesityl)methanone.

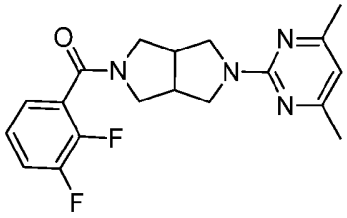
[0904]



[0905] The title compound was prepared in a manner analogous to Example 15, utilizing Intermediate 23 and 2,4,6-trimethylbenzoic acid. MS (ESI): mass calculated for $C_{22}H_{28}N_4O$, 364.23; m/z found 365.2 $[M+H]^+$. ^1H NMR (400 MHz, $CDCl_3$): 6.82 (d, *J* = 8.5, 2H), 6.29 (s, 1 H), 4.03 - 3.29 (m, 8H), 3.11 - 2.89 (m, 2H), 2.35 - 2.11 (m, 15H).

Example 271: (2,3-Difluorophenyl)(5-(4,6-dimethylpyrimidin-2-yl)hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl)methanone.

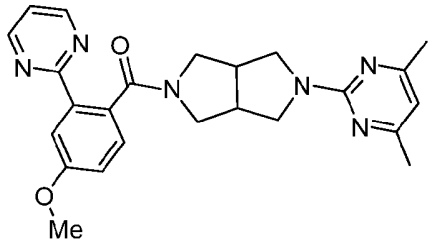
[0906]



[0907] The title compound was prepared in a manner analogous to Example 15, utilizing Intermediate 23 and 2,3-difluorobenzoic acid. MS (ESI): mass calculated for $C_{19}H_{20}F_2N_4O$, 358.16; m/z found 358.2 $[M+H]^+$. ^1H NMR (400 MHz, $CDCl_3$): 7.26 - 7.08 (m, 3H), 6.30 (s, 1 H), 4.03 - 3.73 (m, 3H), 3.71 - 3.57 (m, 3H), 3.39 (dd, *J* = 11.3, 5.0, 2H), 3.16 - 2.95 (m, 2H), 2.36 - 2.19 (m, 6H).

Example 272: (5-(4,6-Dimethylpyrimidin-2-yl)hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl)(4-methoxy-2-(pyrimidin-2-yl)phenyl)methanone.

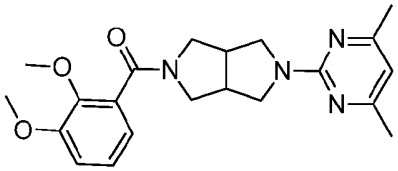
[0908]



[0909] The title compound was prepared in a manner analogous to Example 15 substituting Intermediate 88 for 3-fluoro-2-[1,2,3]triazol-2-yl-benzoic acid. MS (ESI) mass calcd. for $C_{24}H_{26}N_6O_2$, 430.5; m/z found, 431.3 $[M+H]^+$. ^1H NMR (400 MHz, $CDCl_3$): 8.78 (t, *J* = 4.6 Hz, 2H), 7.80 (d, *J* = 2.6 Hz, 1 H), 7.33 - 7.27 (m, 1 H), 7.16 (q, *J* = 4.7 Hz, 1 H), 7.05 (dd, *J* = 8.4, 2.7 Hz, 1 H), 6.30 (s, 1 H), 3.91 (d, *J* = 3.6 Hz, 3H), 3.85 (ddd, *J* = 11.7, 7.8, 3.4 Hz, 2H), 3.72 - 3.60 (m, 3H), 3.54 (dd, *J* = 11.6, 4.8 Hz, 1 H), 3.47 (dd, *J* = 11.0, 7.3 Hz, 1 H), 3.16 (dd, *J* = 11.1, 4.9 Hz, 1 H), 3.00 - 2.87 (m, 2H), 2.30 (s, 6H).

Example 273: (2,3-Dimethoxyphenyl)(5-(4,6-dimethylpyrimidin-2-yl)hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl)methanone.

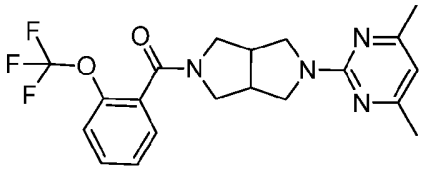
[0910]



[0911] The title compound was prepared in a manner analogous to Example 15, utilizing Intermediate 23 and 2,3-dimethoxybenzoic acid. MS (ESI): mass calculated for $C_{21}H_{26}N_4O_3$, 382.20; m/z found 383.4 $[M+H]^+$. ^1H NMR (400 MHz, $CDCl_3$): 7.09 (dd, *J* = 17.8, 9.7, 1 H), 6.89 (dd, *J* = 7.9, 1.4, 2H), 6.33 - 6.19 (m, 1 H), 4.02 - 3.43 (m, 13H), 3.32 - 2.83 (m, 3H), 2.39 - 2.21 (m, 6H).

Example 274: (5-(4,6-Dimethylpyrimidin-2-yl)hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl)(2-(trifluoromethoxy)phenyl)methanone.

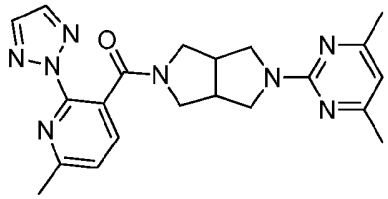
[0912]



[0913] The title compound was prepared in a manner analogous to Example 15, utilizing Intermediate 23 and 2-(trifluoromethoxy)benzoic acid. MS (ESI): mass calculated for $C_{20}H_{21}F_3N_4O_2$, 406.16; m/z found 407.2 $[M+H]^+$. ^1H NMR (400 MHz, $CDCl_3$): 7.49 - 7.27 (m, 4H), 6.30 (s, 1 H), 4.08 - 3.36 (m, 8H), 3.28 - 2.80 (m, 3H), 2.40 - 2.19 (m, 6H).

Example 275: [5-(4,6-Dimethyl-pyrimidin-2-yl)-hexahydro-pyrrolo[3,4-c]pyrrol-2-yl]-(6-methyl-2-[1,2,3]triazol-2-yl-pyridin-3-yl)-methanone.

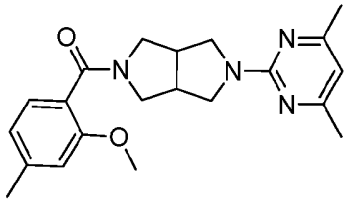
[0914]



[0915] To a pale yellow solution of 2-(4,6-dimethylpyrimidin-2-yl)octahydropyrrolo[3,4-c]pyrrole (Intermediate 23) (50 mg, 0.23 mmol) in 2mL of DMF was added 6-methyl-2-[1,2,3]triazol-2-yl-nicotinic acid (Intermediate 70) (51 mg, 0.25 mmol) followed by HATU (131 mg, 0.34 mmol) and DIPEA (0.118 mL, 0.69 mmol). The resulting solution was allowed to stir at room temp for 1 h and turned progressively more intense yellow as the reaction continued. The reaction was monitored via LCMS and quenched with H_2O once starting materials we no longer observed. The resulting biphasic mixture was extracted with EtOAc three times. The combined organic layers were washed with brine, dried with Na_2SO_4 and conc. into a pale yellow oil under reduced pressure. The yellow residue was purified via FCC using 5-50% 2M NH_3/MeOH in DCM. Minor impurities remained so the material was further purified via HPLC 0-99% CH_3N to give the desired product. MS (ESI) mass calcd. for $C_{21}H_{24}N_8O$, 404.47; m/z found 405.3 $[M+H]^+$. ^1H NMR (400 MHz, $CDCl_3$) 7.80 (s, 2H), 7.72 (d, *J* = 7.7 Hz, 1 H), 7.29 - 7.24 (m, 1 H), 6.30 (s, 1 H), 3.90 - 3.80 (m, 2H), 3.73 - 3.63 (m, 2H), 3.59 (dd, *J* = 11.6, 5.3 Hz, 1 H), 3.47 (dd, *J* = 11.6, 3.7 Hz, 1 H), 3.33 (s, 1 H), 3.00 (ddd, *J* = 38.4, 21.7, 7.2 Hz, 3H), 2.68 (s, 3H), 2.30 (s, 6H).

Example 276: (5-(4,6-Dimethylpyrimidin-2-yl)hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl)(2-methoxy-4-methylphenyl)methanone.

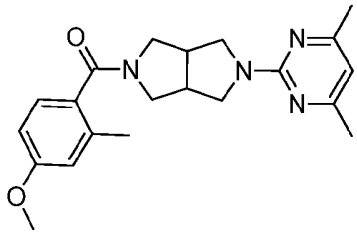
[0916]



[0917] The title compound was prepared in a manner analogous to Example 15, utilizing Intermediate 23 and 2-methoxy-4-methylbenzoic acid. MS (ESI): mass calculated for $C_{21}H_{26}N_4O_2$, 366.21; m/z found 367.3 $[M+H]^+$. ^1H NMR (400 MHz, $CDCl_3$): 7.13 (d, *J* = 7.6, 1 H), 6.77 (d, *J* = 7.6, 1 H), 6.70 (s, 1 H), 6.28 (s, 1 H), 4.00 - 3.40 (m, 11 H), 3.27 - 2.85 (m, 3H), 2.41 - 2.19 (m, 9H).

Example 277: (5-(4,6-Dimethylpyrimidin-2-yl)hexahydropyrrolo[3,4-c]pyrrol-2(1 H)-yl)(4-methoxy-2-methylphenyl)methanone.

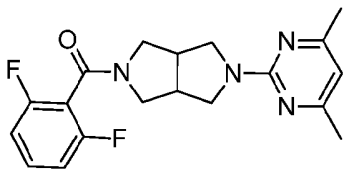
[0918]



[0919] The title compound was prepared in a manner analogous to Example 15, utilizing Intermediate 23 and 4-methoxy-2-methylbenzoic acid. MS (ESI): mass calculated for $C_{21}H_{26}N_4O_2$, 366.21; m/z found 367.3 $[M+H]^+$. ^1H NMR (400 MHz, $CDCl_3$): 7.11 (d, *J* = 7.9, 1 H), 6.77 - 6.67 (m, 2H), 6.29 (s, 1 H), 4.01 - 3.83 (m, 2H), 3.83 - 3.72 (m, 4H), 3.72 - 3.55 (m, 2H), 3.46 (dt, *J* = 11.9, 6.0, 2H), 3.21 - 2.89 (m, 3H), 2.37 - 2.25 (m, 9H).

Example 278: (2,6-Difluorophenyl)(5-(4,6-dimethylpyrimidin-2-yl)hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl)methanone.

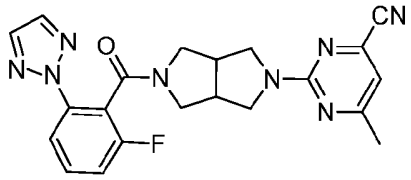
[0920]



[0921] The title compound was prepared in a manner analogous to Example 15, utilizing Intermediate 23 and 2,6-difluorobenzoic acid. MS (ESI): mass calculated for $C_{19}H_{20}F_2N_4O$, 358.16; m/z found 359.2 $[M+H]^+$. ^1H NMR (400 MHz, $CDCl_3$): 7.34 (tt, *J* = 8.4, 6.4, 1H), 6.93 (s, 2H), 6.30 (s, 1 H), 4.12 - 3.76 (m, 3H), 3.75 - 3.45 (m, 4H), 3.36 - 2.88 (m, 3H), 2.30 (s, 6H).

Example 279: 2-[5-{[2-Fluoro-6-(2H-1,2,3-triazol-2-yl)phenyl]carbonyl}hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl]-6-methylpyrimidine-4-carbonitrile.

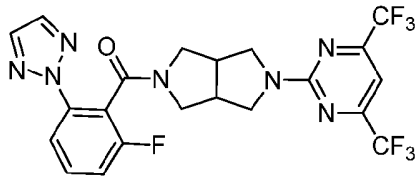
[0922]



[0923] The title compound was prepared in a manner analogous to Example 15, utilizing Intermediate 12 and Intermediate 49. MS (ESI): mass calculated for $C_{21}H_{19}F_2N_8O$, 418.44; m/z found 419.2 $[M+H]^+$. ^1H NMR (400 MHz, $CDCl_3$): 7.91 - 7.80 (m, 2H), 7.75 (s, 1 H), 7.55 - 7.42 (m, 1 H), 7.15 (ddd, *J* = 8.4, 6.6, 4.0 Hz, 1 H), 6.69 (d, *J* = 5.5 Hz, 1 H), 4.07 - 3.46 (m, 7H), 3.35-3.20 (m, 1 H), 3.19 - 2.94 (m, 2H), 2.40 (s, 3H).

Example 280: 2-[4,6-Bis(trifluoromethyl)pyrimidin-2-yl]-5-{[2-fluoro-6-(2H-1,2,3-triazol-2-yl)phenyl]carbonyl}octahydropyrrolo[3,4-c]pyrrole.

[0924]



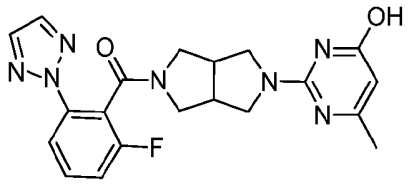
[0925] Step A: Intermediate 16 (100 mg, 0.332 mmol) was diluted with DCM (10 mL) and was treated with 1,3-di-boc-2-(trifluoromethylsulfonyl)guanidine (118.2 mg, 0.302 mmol) and triethyl amine (0.046 mL, 0.332 mmol). The reaction was stirred at room temperature overnight, then was diluted with DCM and water, extracted and concentrated to provide crude tert-butyl (((tert-butoxycarbonyl)imino)(5-(2-fluoro-6-(2H-1,2,3-triazol-2-yl)benzoyl)hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl)methyl)carbamate (165 mg) which was used as is in Step B. MS (ESI): mass calculated for $C_{26}H_{34}FN_7O_5$, 543.60; m/z found 544.3 $[M+H]^+$.

[0926] Step B: Crude tert-butyl (((tert-butoxycarbonyl)imino)(5-(2-fluoro-6-(2H-1,2,3-triazol-2-yl)benzoyl)hexahydropyrrolo[3,4-c]pyrrol-2(1 H)-yl)methyl)carbamate was dissolved in dioxin (8 mL) and TFA (3 mL) was added and the reaction was stirred at room temperature overnight to form crude 5-(2-fluoro-6-(2H-1,2,3-triazol-2-yl)benzoyl)hexahydropyrrolo[3,4-c]pyrrole-2(1H)-carboximidamide (214 mg) as a TFA salt which was used directly in Step C.

[0927] Step C: Crude 5-(2-fluoro-6-(2H-1,2,3-triazol-2-yl)benzoyl)hexahydro-pyrrolo[3,4-c]pyrrole-2(1H)-carboximidamide - TFA salt (66 mg) was diluted with n-butanol (4 mL) and treated with sodium methoxide (51.9 mg, 0.961 mmol). The reaction is heated to reflux for 1 hour, then cooled and 1,1,1,5,5,5-hexafluoropentane-2,4-dione (400 mg, 1.92 mmol) is added prior to re-heating the reaction to reflux for 19 hours. The mixture was then cooled and concentrated, then diluted with DCM and saturated sodium bicarbonate. Extract with DCM and concentrate. Reverse phase HPLC gave the title compound (4.6 mg). MS (ESI): mass calculated for $C_{21}H1_6F_7N_7O$, 515.39; m/z found 416.2 $[M+H]^+$. Rotamers observed in ^1H NMR.

Example 281: 2-[5-{[2-Fluoro-6-(2H-1,2,3-triazol-2-yl)phenyl]carbonyl}hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl]-6-methylpyrimidin-4-ol.

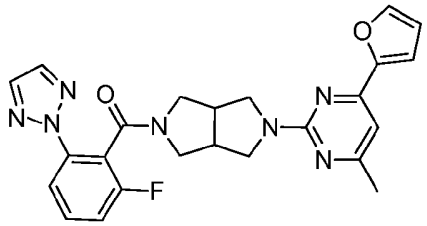
[0928]



[0929] The title compound was prepared in a manner analogous to Example 280, substituting methyl acetoacetate for 1,1,1,5,5,5-hexafluoropentane-2,4-dione in Step C. MS (ESI): mass calculated for $C_{20}H_{20}FN_7O_2$, 409.42; m/z found 410.2 $[M+H]^+$. Rotamers observed in ^1H NMR.

Example 282: (2-Fluoro-6-(2H-1,2,3-triazol-2-yl)phenyl)(5-(4-(furan-2-yl)-6-methylpyrimidin-2-yl)hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl)methanone.

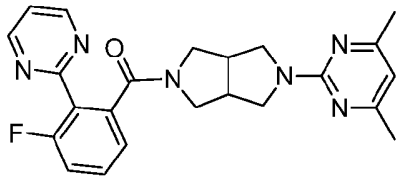
[0930]



[0931] The title compound was prepared in a manner analogous to Example 280, substituting 1-(furan-2-yl)butane-1,3-dione for 1,1,1,5,5,5-hexafluoropentane-2,4-dione in the Step C. MS (ESI): mass calculated for $C_{24}H_{22}FN_7O_2$, 459.49; m/z found 460.2 $[M+H]^+$. ^1H NMR very broad peaks due to rotamers.

Example 283: 2-(4,6-Dimethylpyrimidin-2-yl)-5-[(3-fluoro-2-pyrimidin-2-ylphenyl)carbonyl]octahydropyrrolo[3,4-c]pyrrole.

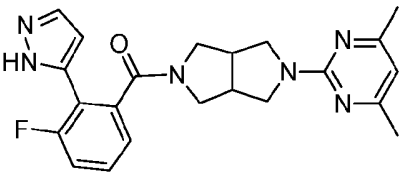
[0932]



[0933] To a mixture of 2-(4,6-dimethyl-pyrimidin-2-yl)-octahydro-pyrrolo[3,4-c]pyrrole (1.4 g, 6.5 mmol), 3-fluoro-2-(pyrimidin-2-yl)benzoic acid (1.4 g, 6.5 mmol), and TEA (1.3 mL, 9.7 mmol) in DMF (32.0 mL) was added HATU (2.7 g, 7.1 mmol). After 1 h, the reaction mixture was diluted with EtOAc and washed with water. The aqueous layer was then extracted with EtOAc (1 X). The combined organic phases were dried (Na_2SO_4), filtered and concentrated to dryness. The crude product was purified using silica gel chromatography (0-5% MeOH in EtOAc) to yield pure title compound (1.2 g, 44%). MS (ESI) mass calcd. For $C_{23}H_{23}FN_6O$, 418.48; m/z found 419.2 $[M+H]^+$. ^1H NMR ($CDCl_3$): 8.91 - 8.56 (m, 2H), 7.47 - 7.42 (m, 1 H), 7.24 - 7.14 (m, 3H), 6.30 (s, 1H), 3.81 (dd, *J* = 11.6, 7.2 Hz, 1 H), 3.72 (ddd, *J* = 9.0, 7.2, 2.2 Hz, 2H), 3.68 - 3.47 (m, 4H), 3.31 (dd, *J* = 11.0, 4.8 Hz, 1 H), 3.05 - 2.89 (m, 2H), 2.31 (s, 6H).

Example 284: 2-(4,6-Dimethylpyrimidin-2-yl)-5-{[3-fluoro-2-(1H-pyrazol-5-yl)phenyl]carbonyl}octahydropyrrolo[3,4-c]pyrrole.

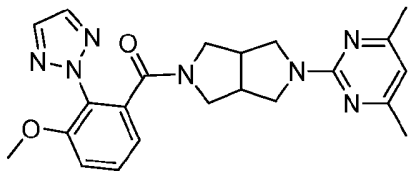
[0934]



[0935] The title compound was prepared in a manner analogous to Example 283, substituting Intermediate 86 for 3-fluoro-2-(pyrimidin-2-yl)benzoic acid. MS (ESI) mass calcd. $C_{22}H_{23}FN_6O$, 406.47; m/z found 407.2 $[M+H]^+$. ^1H NMR ($CDCl_3$): 11.33 (s, 1 H), 7.50 (m, 1 H), 7.35 - 7.31 (m, 1 H), 7.21 - 7.08 (m, 2H), 6.64 (s, 1 H), 6.28 (s, 1 H), 3.82 - 2.71 (m, 10H), 2.30 (s, 6H).

Example 285: 2-(4,6-Dimethylpyrimidin-2-yl)-5-{[3-methoxy-2-(2H-1,2,3-triazol-2-yl)phenyl]carbonyl}octahydropyrrolo[3,4-c]pyrrole.

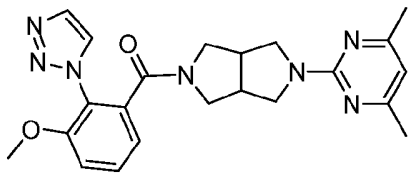
[0936]



[0937] The title compound was prepared in a manner analogous to Example 283, substituting 3-methoxy-2-(2H-1,2,3-triazol-2-yl)benzoic acid for 3-fluoro-2-(pyrimidin-2-yl)benzoic acid. MS (ESI) mass calcd. $C_{22}H_{25}N_7O_2$, 419.49; m/z found 420.2 $[M+H]^+$. ^1H NMR ($CDCl_3$): 7.74 (d, J = 6.6 Hz, 2H), 7.51 - 7.45 (m, 1 H), 7.09 (dd, J = 8.4, 1.0 Hz, 1 H), 7.00 (dd, J = 7.6, 1.1 Hz, 1 H), 6.29 (s, 1 H), 3.87 - 3.76 (m, 4H), 3.66 (ddd, J = 19.8, 12.1, 7.0 Hz, 2H), 3.58 - 3.50 (m, 2H), 3.47 - 3.37 (m, 2H), 3.22 (dd, J = 11.0, 5.1 Hz, 1 H), 2.97 - 2.86 (m, 2H), 2.28 (s, J = 20.1 Hz, 6H).

Example 286: 2-(4,6-Dimethylpyrimidin-2-yl)-5-{[3-methoxy-2-(1H-1,2,3-triazol-1-yl)phenyl]carbonyl}octahydropyrrolo[3,4-c]pyrrole.

[0938]

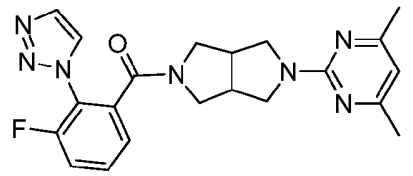


[0939] Step A: To 3-fluoro-2-(1H-1,2,3-triazol-1-yl)benzonitrile (2.1 g, 11.2 mmol) in MeOH (30 mL) was added 2 M aq. NaOH (10 mL). The reaction was heated at reflux until determined complete by HPLC then cooled to room temperature, acidified with 1 N aq. HCl to pH=1 and extracted with DCM (2X). The combined organics were washed with brine and dried (Na_2SO_4) resulting in a mixture of two products, 3-methoxy-2-(1H-1,2,3-triazol-1-yl)benzoic acid and 3-fluoro-2-(1H-1,2,3-triazol-1-yl)benzoic acid, which were used without further purification in the next step.

[0940] Step B: 2-(4,6-Dimethylpyrimidin-2-yl)-5-{[3-methoxy-2-(1H-1,2,3-triazol-1-yl)phenyl]carbonyl}octahydropyrrolo[3,4-c]pyrrole. Example 286 was prepared in a manner analogous to Example 283, utilizing a mixture of 3-methoxy-2-(1H-1,2,3-triazol-2-yl)benzoic acid and 3-fluoro-2-(1H-1,2,3-triazol-2-yl)benzoic acid in place of 3-fluoro-2-(pyrimidin-2-yl)benzoic acid which gave 2 products, Example 286 and Example 287. For Example 286: MS (ESI) mass calcd. $C_{22}H_{23}N_7O_2$, 419.49; m/z found 420.2 $[M+H]^+$. ^1H NMR ($CDCl_3$): 7.87 (d, J = 1.0 Hz, 1H), 7.77 (d, J = 1.0 Hz, 1 H), 7.52 - 7.45 (m, 1 H), 7.09 (dd, J = 8.5, 1.0 Hz, 1 H), 7.00 (dd, J = 7.7, 1.1 Hz, 1 H), 6.29 (s, J = 5.2 Hz, 1 H), 3.89 - 3.81 (m, 4H), 3.79 - 3.65 (m, 3H), 3.54 - 3.46 (m, 2H), 3.43 - 3.36 (m, 1 H), 3.24 (dt, J = 12.4, 6.1 Hz, 1 H), 3.02 - 2.91 (m, 2H), 2.29 (s, 6H).

Example 287: 2-(4,6-Dimethylpyrimidin-2-yl)-5-{[3-fluoro-2-(1H-1,2,3-triazol-1-yl)phenyl]carbonyl}octahydropyrrolo[3,4-c]pyrrole.

[0941]

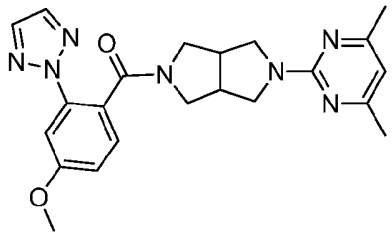


[0942] The title compound was isolated from Step B in Example 286. MS (ESI) mass calcd. $C_{21}H_{22}FN_7O$, 407.45; m/z found 408.2 $[M+H]^+$. ^1H NMR ($CDCl_3$): 7.96 - 7.91 (m, 1 H), 7.84 - 7.80 (m, 1 H), 7.58 - 7.49 (m, 1 H), 7.37 - 7.30 (m, 1

H), 7.26 - 7.23 (m, 1 H), 6.29 (s, 1 H), 3.88 - 3.85 (m, 1 H), 3.80 - 3.71 (m, 2H), 3.71 - 3.64 (m, 1 H), 3.57 - 3.42 (m, 3H), 3.23 (dd, *J* = 11.0, 5.0 Hz, 1 H), 3.04 - 2.94 (m, 2H), 2.29 (s, 6H).

Example 288: 2-(4,6-Dimethylpyrimidin-2-yl)-5-{[4-methoxy-2-(2H-1,2,3-triazol-2-yl)phenyl]carbonyl}octahydropyrrolo[3,4-c]pyrrole.

[0943]



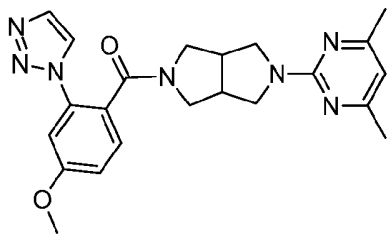
[0944] Step A: (5-Benzylhexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl)(4-methoxy-2-(2H-1,2,3-triazol-2-yl)phenyl)methanone. To a mixture of 2-benzyloctahydropyrrolo[3,4-c]pyrrole (282 mg, 1.4 mmol), 4-methoxy-2-(2H-1,2,3-triazol-2-yl)benzoic acid (306 mg, 1.4 mmol), and TEA (0.21 mL, 1.5 mmol) in DMF (7.5 mL) was added HATU (583 mg, 1.5 mmol). After 1 h, the reaction mixture was diluted with EtOAc and washed with water. The aqueous layer was then extracted with EtOAc (1X). The combined organics were dried (Na_2SO_4) and concentrated to give a residue. Purification via Agilent prep system (Basic) gave 327 mg (58%) of the title compound as a clear oil. ^{1}H NMR ($CDCl_3$): 7.79 (s, *J* = 6.5 Hz, 2H), 7.50 (d, *J* = 5.0 Hz, 1 H), 7.36 (d, *J* = 8.5 Hz, 1 H), 7.34 - 7.21 (m, 5H), 6.95 (dd, *J* = 8.5, 2.5 Hz, 1 H), 3.93 (s, 3H), 3.86 - 3.72 (m, 1 H), 3.65 - 3.46 (m, 3H), 3.13 (s, 1 H), 2.90 - 2.74 (m, 2H), 2.74 - 2.59 (m, 2H), 2.57 - 2.39 (m, 2H), 2.16 (dd, *J* = 9.2, 4.2 Hz, 1 H).

[0945] Step B: (Hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl)(4-methoxy-2-(2H-1,2,3-triazol-2-yl)phenyl)methanone. (5-Benzylhexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl)(4-methoxy-2-(2H-1,2,3-triazol-2-yl)phenyl)methanone in EtOH (20 mL) and AcOH (1 mL) was continuously flowed through a 20 wt% $Pd(OH)_2$/C cartridge at a rate of 1 mL/min for 2 h at 50 °C and 50 bar using a H-cube apparatus. Then the reaction was concentrated and neutralized with 5% Na_2CO_3 (aq), and extracted with CH_2Cl_2 (3X). Combined organics and dried (Na_2SO_4) to give (hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl)(4-methoxy-2-(2H-1,2,3-triazol-2-yl)phenyl)methanone as a clear oil that was used without further purification. ^{1}H NMR ($CDCl_3$):7.83 - 7.80 (m, 2H), 7.50 (d, *J* = 2.5 Hz, 1 H), 7.32 (d, *J* = 8.5 Hz, 1 H), 6.96 (dd, *J* = 8.5, 2.5 Hz, 1 H), 3.89 (s, 3H), 3.75 - 3.63 (m, 2H), 3.27 (s, 1 H), 3.08 (dd, *J* = 11.9, 8.1 Hz, 1 H), 2.94 (dt, *J* = 11.4, 5.7 Hz, 2H), 2.88 - 2.75 (m, 2H), 2.69 (dd, *J* = 17.8, 14.3 Hz, 1 H), 2.56 (dd, *J* = 11.4, 3.9 Hz, 1 H).

[0946] Step C: 2-(4,6-Dimethylpyrimidin-2-yl)-5-{[4-methoxy-2-(2H-1,2,3-triazol-2-yl)phenyl]carbonyl}octahydropyrrolo[3,4-c]pyrrole. To (hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl)(4-methoxy-2-(2H-1,2,3-triazol-2-yl)phenyl)methanone (185 mg, 0.4 mmol) in DMF (2.2 mL) was added 2-chloro-4,6-dimethylpyrimidine (61 mg, 0.4 mmol). The flask was heated to 120 °C for 18h. The flask was allowed to cool to rt, diluted with EtOAc and washed with H_2O. The aq was back-extracted with EtOAc (1X). The combined organics were washed with brine and dried (Na_2SO_4) to give an oil. Purification via silica gel (15-75% EtOAc in hexanes) gave 175 mg (97%) of the title compound. MS (ESI) mass calcd. $C_{22}H_{25}N_7O_2$, 419.49; m/z found 420.2 $[M+H]^+$. ^{1}H NMR ($CDCl_3$): 7.73 (s, 2H), 7.49 (d, *J* = 7.8 Hz, 1 H), 7.33 (d, *J* = 8.5 Hz, 1 H), 6.95 (dd, *J* = 8.5, 2.5 Hz, 1 H), 6.29 (s, 1 H), 3.93 - 3.80 (m, 5H), 3.72 - 3.63 (m, 2H), 3.58 (dd, *J* = 11.6, 5.2 Hz, 1 H), 3.46 (dd, *J* = 11.6, 4.3 Hz, 1 H), 3.39 - 3.28 (m, 1 H), 3.05 - 2.84 (m, 3H), 2.33 (s, 6H).

Example 289: 2-(4,6-Dimethylpyrimidin-2-yl)-5-{[4-methoxy-2-(1H-1,2,3-triazol-2-yl)phenyl]carbonyl}octahydropyrrolo[3,4-c]pyrrole.

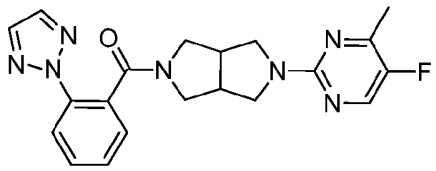
[0947]



[0948] The title compound was prepared in a manner analogous to Example 283, utilizing a mixture of 4-methoxy-2-(1H-1,2,3-triazol-1-yl)benzoic acid and 4-methoxy-2-(2H-1,2,3-triazol-1-yl)benzoic acid obtained from the synthesis of Intermediate 54. Purification of the final compounds gave the title compound as an oil. MS (ESI) mass calcd. $C_{22}H_{25}N_7O_2$, 419.49; m/z found 420.2 $[M+H]^+$. ^1H NMR ($CDCl_3$): 7.98 (s, *J* = 2.9 Hz, 1 H), 7.77 (s, *J* = 4.1 Hz, 1 H), 7.42-7.36 (m, 1 H), 7.18 (d, *J* = 2.5 Hz, 1 H), 7.06 (dd, *J* = 8.5, 2.5 Hz, 1 H), 6.29 (s, 1 H), 3.90 (s, *J* = 7.6 Hz, 3H), 3.83 - 3.66 (m, 3H), 3.50 - 3.42 (m, 2H), 3.30 (dd, *J* = 11.6, 4.7 Hz, 1 H), 3.22 (dd, *J* = 11.1, 7.3 Hz, 1 H), 2.99 - 2.76 (m, 3H), 2.28 (d, *J* = 16.2Hz.6H).

Example 290: 2-(5-Fluoro-4-methylpyrimidin-2-yl)-5-{[2-(2H-1,2,3-triazol-2-yl)phenyl]carbonyl}octahydropyrrolo[3,4-c]pyrrole.

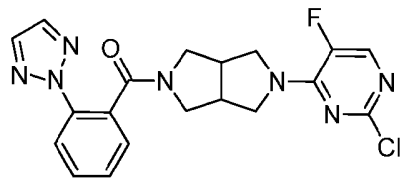
[0949]



[0950] A mixture of Intermediate 20 (86 mg, 0.30 mmol), Intermediate 55 (44 mg, 0.3 mmol) and DIPEA (0.16 mL, 0.91 mmol) in ACN (1 mL) was heated in the microwave at 200 °C for 2 h. The mixture was concentrated *in vacuo* and chromatography (Hex to 100% EtOAc/Hex) afforded the title compound (82 mg, 69%). MS (ESI): mass calculated for $C_{20}H_{20}FN_7O$, 393.17, m/z found 394.2 $[M+1]^+$. ^1H NMR (400 MHz, $CDCl_3$): 8.06 (d, *J* = 1.7 Hz, 1 H), 7.98 (d, *J* = 8.1 Hz, 1 H), 7.75 (s, 2H), 7.57 - 7.48 (m, 1 H), 7.43 (d, *J* = 6.2 Hz, 2H), 3.93 - 3.77 (m, 2H), 3.74 - 3.60 (m, 2H), 3.59 - 3.51 (m, 1 H), 3.46 - 3.33 (m, 2H), 3.09 - 2.88 (m, 3H), 2.37 (d, *J* = 2.5 Hz, 3H).

Example 291: 2-(2-Chloro-5-fluoropyrimidin-4-yl)-5-{[2-(2H-1,2,3-triazol-2-yl)phenyl]carbonyl}octahydropyrrolo[3,4-c]pyrrole.

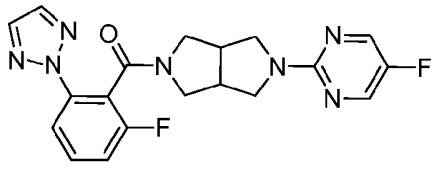
[0951]



[0952] The title compound was prepared in a manner analogous to Example 290 utilizing Intermediate 20 and substituting 2,4-dichloro-5-fluoropyrimidine for Intermediate 55. MS (ESI) mass calculated for $C_{19}H_{17}ClFN_7O$, 413.85; m/z found, 414.2 $[M+H]^+$. ^1H NMR (400 MHz, $CDCl_3$): 8.01 (d, *J* = 8.3 Hz, 1 H), 7.90 (d, *J* = 5.0 Hz, 1 H), 7.79 (s, 2H), 7.58 - 7.51 (m, 1 H), 7.48 - 7.39 (m, 2H), 4.04 - 3.93 (m, 1 H), 3.92 - 3.70 (m, 4H), 3.68 - 3.59 (m, 1 H), 3.46 (br s, 1 H), 3.13-2.88 (m, 3H).

Example 292: 2-(5-Fluoropyrimidin-2-yl)-5-{[2-fluoro-6-(2H-1,2,3-triazol-2-yl)phenyl]carbonyl}octahydropyrrolo[3,4-c]pyrrole.

[0953]

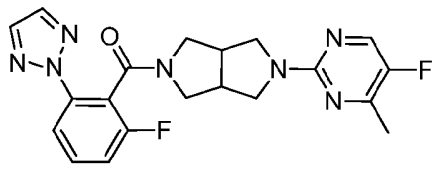


[0954] The title compound was prepared in a manner analogous to Example 290 substituting Intermediate 16 for

Intermediate 20 and 2-chloro-5-fluoropyrimidine for Intermediate 55. MS (ESI) mass calculated for $C_{19}H_{17}F_2N_7O$, 397.39; m/z found, 398.2. ^1H NMR (400 MHz, $CDCl_3$): 8.26 - 8.17 (m, 2H), 7.89 - 7.78 (m, 2H), 7.73 (s, 1 H), 7.53 - 7.44 (m, 1 H), 7.19 - 7.10 (m, 1 H), 4.02 - 3.45 (m, 7H), 3.30 - 3.23 (m, 1 H), 3.17 - 2.97 (m, 2H).

Example 293: 2-(5-Fluoro-4-methylpyrimidin-2-yl)-5-{[2-fluoro-6-(2H-1,2,3-triazol-2-yl)phenyl]carbonyl}octahydropyrrolo[3,4-c]pyrrole.

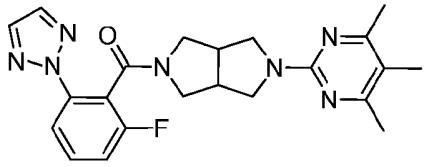
[0955]



[0956] The title compound was prepared in a manner analogous to Example 290 substituting Intermediate 16 for Intermediate 20. MS (ESI) mass calculated for $C_{20}H_{19}F_2NO$, 411.42; m/z found, 412.2. ^1H NMR (400 MHz, $CDCl_3$): 8.09 - 8.03 (m, 1 H), 7.88 - 7.79 (m, 2H), 7.72 (s, 1H),7.51 -7.43(m, 1H),7.18-7.10 (m, 1H),4.01 - 3.45 (m, 7H), 3.30 - 3.21 (m, 1 H), 3.15-2.95 (m, 2H), 2.37 (d, J = 2.4 Hz, 3H).

Example 294: 2-{[2-Fluoro-6-(2H-1,2,3-triazol-2-yl)phenyl]carbonyl}-5-(4,5,6-trimethylpyrimidin-2-yl)octahydropyrrolo[3,4-c]pyrrole.

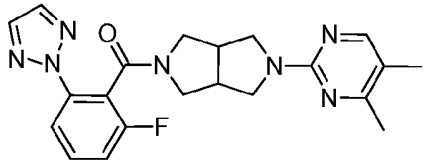
[0957]



[0958] The title compound was prepared in a manner analogous to Example 290 substituting Intermediate 16 for Intermediate 20 and Intermediate 56 for Intermediate 55. MS (ESI) mass calculated for $C_{22}H_{24}FN_7O$, 421.48; m/z found, 422.2. ^1H NMR (500 MHz, $CDCl_3$): 7.88 - 7.79 (m, 2H), 7.72 (s, 1 H), 7.50-7.43 (m, 1 H), 7.17-7.10 (m, 1 H), 3.93 - 3.47 (m, 7H), 3.28-3.21 (m, 1 H), 3.11 - 2.93 (m, 2H), 2.33 (s, 6H), 2.07 (s, 3H).

Example 295: 2-(4,5-Dimethylpyrimidin-2-yl)-5-{[2-fluoro-6-(2H-1,2,3-triazol-2-yl)phenyl]carbonyl}octahydropyrrolo[3,4-c]pyrrole.

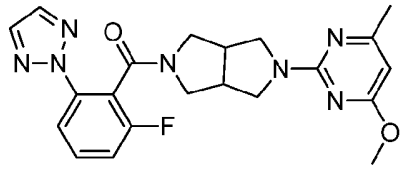
[0959]



[0960] The title compound was prepared in a manner analogous to Example 290 substituting Intermediate 16 for Intermediate 20 and Intermediate 57 for Intermediate 55. MS (ESI) mass calculated for $C_{21}H_{22}FN_7O$, 407.45; m/z found, 408.2. ^1H NMR (400 MHz, $CDCl_3$): 7.99 (s, 1 H), 7.89 - 7.78 (m, 2H), 7.72 (s, 1 H), 7.53-7.42 (m, 1 H), 7.19-7.08 (m, 1 H), 4.02-3.46 (m, 7H), 3.31 - 3.21 (m, 1 H), 3.15 - 2.95 (m, 2H), 2.32 (s, 3H), 2.09 (s, 3H).

Example 296: 2-{[2-Fluoro-6-(2H-1,2,3-triazol-2-yl)phenyl]carbonyl}-5-(4-methoxy-6-methylpyrimidin-2-yl)octahydropyrrolo[3,4-c]pyrrole.

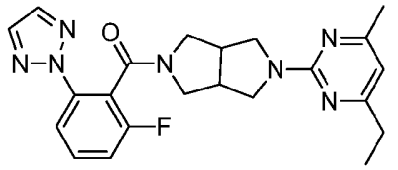
[0961]



[0962] The title compound was isolated from the synthesis of Intermediate 58. MS (ESI) mass calculated for $C_{21}H_{22}FN_7O_2$, 423.45; m/z found, 424.0. ^{1}H NMR (500 MHz, $CDCl_3$): 7.88 - 7.80 (m, 2H), 7.72 (s, 1 H), 7.52 - 7.44 (m, 1 H), 7.18 - 7.11 (m, 1 H), 5.87 (d, *J* = 4.3 Hz, 1 H), 4.00 - 3.50 (m, 10H), 3.30 - 3.22 (m, 1 H), 3.13-2.93 (m, 2H), 2.28 (s, 3H).

Example 297: 2-(4-Ethyl-6-methylpyrimidin-2-yl)-5-{[2-fluoro-6-(2H-1,2,3-triazol-2-yl)phenyl]carbonyl}octahydropyrrolo[3,4-c]pyrrole.

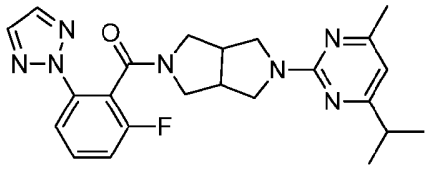
[0963]



[0964] The title compound was prepared in a manner analogous to Intermediate 55 substituting Intermediate 58 for 2,4-dichloro-5-fluoropyrimidine and 1.0 M EtMgBr in THF for 3.0 M MeMgBr in Et_2O. MS (ESI) mass calculated for $C_{22}H_{24}FN_7O$, 421.48; m/z found, 422.0. ^{1}H NMR (500 MHz, $CDCl_3$): 7.88 - 7.79 (m, 2H), 7.71 (s,1H),7.51 -7.43(m, 1 H), 7.18-7.11 (m, 1 H), 6.29 (d, *J* =7.2 Hz, 1H), 4.01-3.50 (m, 7H), 3.31-3.22 (m, 1 H), 3.13-2.94 (m, 2H), 2.56 (q, *J* = 7.6 Hz, 2H), 2.31 (d, *J* = 1.6 Hz, 3H), 1.27 - 1.21 (m, 3H).

Example 298: 2-{[2-Fluoro-6-(2H-1,2,3-triazol-2-yl)phenyl]carbonyl}-5-[4-methyl-6-(1-methylethyl)pyrimidin-2-yl]octahydropyrrolo[3,4-c]pyrrole.

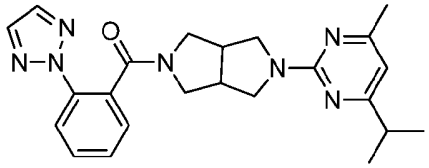
[0965]



[0966] The title compound was prepared in a manner analogous to Intermediate 55 substituting Intermediate 58 for 2,4-dichloro-5-fluoropyrimidine and 2.0 M iPrMgBr in THF for 3.0 M MeMgBr in Et_2O. Three products were formed in this reaction, 2-{[2-fluoro-6-(2H-1,2,3-triazol-2-yl)phenyl]carbonyl}-5-[4-methyl-6-(1-methylethyl)pyrimidin-2-yl]octahydropyrrolo[3,4-c]pyrrole, 2-[4-methyl-6-(1-methylethyl)pyrimidin-2-yl]-5-{[2-(2H-1,2,3-triazol-2-yl)phenyl]carbonyl}octahydropyrrolo[3,4-c]pyrrole and 2-{[5-(1-Methylethyl)-2-(2H-1,2,3-triazol-2-yl)phenyl]carbonyl}-5-[4-methyl-6-(1-methylethyl)pyrimidin-2-yl]octahydropyrrolo[3,4-c]pyrrole. MS (ESI) mass calculated for $C_{23}H_{26}FN_7O$, 435.51; m/z found, 436.2. ^{1}H NMR (400 MHz, $CDCl_3$): 7.89 - 7.79 (m, 2H), 7.72 (s, 1 H), 7.52-7.43 (m, 1 H), 7.18-7.10 (m, 1 H), 6.32 - 6.25 (m, 1 H), 4.01 - 3.49 (m, 7H), 3.31 - 3.21 (m, 1 H), 3.13 - 2.93 (m, 2H), 2.82 - 2.70 (m, 1 H), 2.32 (d, *J* = 2.1 Hz, 3H), 1.27 - 1.20 (m, 6H).

Example 299: 2-[4-Methyl-6-(1-methylethyl)pyrimidin-2-yl]-5-{[2-(2H-1,2,3-triazol-2-yl)phenyl]carbonyl}octahydropyrrolo[3,4-c]pyrrole.

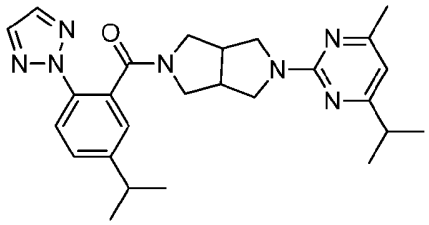
[0967]



[0968] The title compound was isolated from the synthesis of Example 298. MS (ESI) mass calculated for $C_{23}H_{27}N_7O$, 417.52; m/z found, 418.2. ^1H NMR (500 MHz, $CDCl_3$): 7.98 (d, J = 8.1 Hz, 1 H), 7.73 (s, 2H), 7.55 - 7.48 (m, 1 H), 7.45 - 7.39 (m, 2H), 6.29 (s, 1 H), 3.91 - 3.83 (m, 2H), 3.74 - 3.64 (m, 2H), 3.63 - 3.57 (m, 1 H), 3.50 - 3.44 (m, 1 H), 3.42 - 3.27 (m, 1 H), 3.07 - 2.88 (m, 3H), 2.81 - 2.59 (m, 1 H), 2.31 (s, 3H), 1.25 - 1.21 (m, 6H).

Example 300: 2-{[5-(1-Methylethyl)-2-(2H-1,2,3-triazol-2-yl)phenyl]carbonyl}-5-[4-methyl-6-(1-methylethyl)pyrimidin-2-yl]octahydropyrrolo[3,4-c]pyrrole.

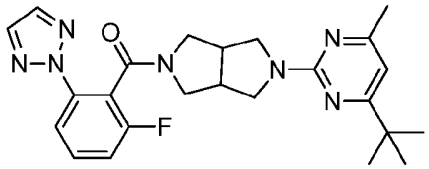
[0969]



[0970] The title compound was isolated from the synthesis of Example 298. MS (ESI) mass calculated for $C_{26}H_{33}N_7O$, 459.6; m/z found, 460.3. ^1H NMR (400 MHz, $CDCl_3$): 7.84 - 7.72 (m, 2H), 7.67 (s, 1 H), 7.51 - 7.32 (m, 2H), 6.32 - 6.25 (m, 1 H), 3.92 - 3.31 (m, 7H), 3.16 - 2.70 (m, 5H), 2.31 (d, J = 4.7 Hz, 3H), 1.28 - 1.14 (m, 12H).

Example 301: 2-(4-tert-Butyl-6-methylpyrimidin-2-yl)-5-{[2-fluoro-6-(2H-1,2,3-triazol-2-yl)phenyl]carbonyl)octahydropyrrolo[3,4-c]pyrrole.

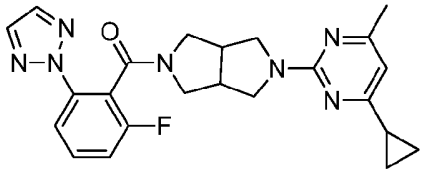
[0971]



[0972] The title compound was prepared in a manner analogous to Intermediate 55 substituting Intermediate 58 for 2,4-dichloro-5-fluoropyrimidine and 1.0 M tBuMgBr in THF for 3.0 M MeMgBr in Et_2O. MS (ESI) mass calculated for $C_{24}H_{28}FN_7O$, 449.54; m/z found, 450.3. ^1H NMR (500 MHz, $CDCl_3$): 7.93 - 7.72 (m, 3H), 7.54 - 7.45 (m, 1 H), 7.20 - 7.11 (m, 1 H), 6.66 - 6.59 (m, 1 H), 4.23 - 3.60 (m, 7H), 3.38 - 3.06 (m, 3H), 2.67 - 2.43 (m, 3H), 1.29 (s, 9H).

Example 302: 2-(4-Cyclopropyl-6-methylpyrimidin-2-yl)-5-{[2-fluoro-6-(2H-1,2,3-triazol-2-yl)phenyl]carbonyl}octahydropyrrolo[3,4-c]pyrrole.

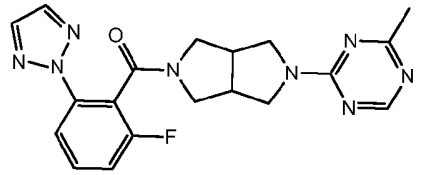
[0973]



[0974] The title compound was prepared in a manner analogous to Intermediate 55 substituting Intermediate 58 for 2,4-dichloro-5-fluoropyrimidine and 0.5 M cyclopropylmagnesium bromide in THF for 3.0 M MeMgBr in Et_2O. MS (ESI) mass calculated for $C_{23}H_{24}FNO$, 433.49; m/z found, 434.2. ^1H NMR (500 MHz, $CDCl_3$): 7.87-7.80 (m, 2H), 7.71 (s, 1H), 7.51 - 7.43 (m, 1 H), 7.18-7.11 (m, 1 H), 6.31 - 6.26 (m, 1 H), 3.99 - 3.79 (m, 2H), 3.79 - 3.72 (m, 1 H), 3.69 - 3.45 (m, 4H), 3.27 - 3.20 (m, 1 H), 3.10 - 2.91 (m, 2H), 2.29 (s, 3H), 1.82 - 1.74 (m, 1 H), 1.10 - 1.00 (m, 2H), 0.95 - 0.88 (m, 2H).

Example 303: 2-{[2-Fluoro-6-(2H-1,2,3-triazol-2-yl)phenyl]carbonyl}-5-(4-methyl-1,3,5-triazin-2-yl)octahydropyrrolo[3,4-c]pyrrole.

[0975]



[0976] Step A: tert-Butyl 5-(4-chloro-1,3,5-triazin-2-yl)hexahydropyrrolo[3,4-c]pyrrole-2(1 H)-carboxylate. To a solution of 2,4-dichloro-1,3,5-triazine (150 mg, 0.953 mmol) in ACN(5 mL) was added a solution of Intermediate 15 (202 mg, 0.953 mmol) and DIPEA (0.33 mL, 1.91 mmol) in ACN (5 mL) at 0 °C dropwise. After 10 min the mixture was diluted with saturated aqueous NH_4Cl solution. The aqueous layer was then extracted with DCM and the combined organic extracts were dried over Na_2SO_4, filtered and concentrated *in vacuo.* Chromatography (Hexanes to 80% EtOAc/Hexanes) afforded the desired product as a white solid (137 mg, 44%). MS (ESI) mass calculated for $C_{14}H_{20}ClN_5O_2$, 325.13; m/z found, 326.1.

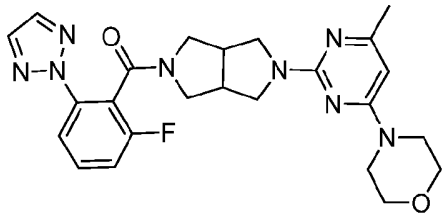
[0977] Step B: tert-Butyl 5-(4-methyl-1,3,5-triazin-2-yl)hexahydropyrrolo[3,4-c]pyrrole-2(1 H)-carboxylate. tert-Butyl 5-(4-methyl-1,3,5-triazin-2-yl)hexahydropyrrolo[3,4-c]pyrrole-2(1H)-carboxylate was prepared in a manner analogous to Intermediate 55 substituting the product of Step A for 2,4-dichloro-5-fluoropyrimidine. MS (ESI) mass calculated for $C_{15}H_{23}N_5O_2$, 305.18; m/z found, 306.0.

[0978] Step C: 2-(4-Methyl-1,3,5-triazin-2-yl)octahydropyrrolo[3,4-c]pyrrole. tert-Butyl 5-(4-methyl-1,3,5-triazin-2-yl)hexahydropyrrolo[3,4-c]pyrrole-2(1 H)-carboxylate (43 mg, 0.142 mmol), DCM (1.4 mL) and TFA (0.71 mL) were stirred at room temperature for 2 h. The mixture was concentrated *in vacuo* and taken on to the next step without further purification.

[0979] Step D: 2-{[2-Fluoro-6-(2H-1,2,3-triazol-2-yl)phenyl]carbonyl}-5-(4-methyl-1,3,5-triazin-2-yl)octahydropyrrolo[3,4-c]pyrrole. Example 303 was prepared in a manner analogous to Intermediate 59 substituting the product of Step C for Intermediate 15 and Intermediate 12 for 2-(4H-[1,2,4]triazol-3-yl)-benzoic acid. MS (ESI) mass calculated for $C_{19}H_{19}FN_8O$, 394.41; m/z found, 395.0. ^1H NMR (500 MHz, $CDCl_3$): 8.51 - 8.42 (m, 1 H), 7.89 - 7.81 (m, 2H), 7.75 (d, J = 3.5 Hz, 1 H), 7.54 - 7.45 (m, 1 H), 7.20 - 7.11 (m, 1 H), 4.02 - 3.51 (m, 8H), 3.32 - 3.23 (m, 1 H), 3.17 - 3.00 (m, 2H), 2.50 - 2.40 (m, 3H).

Example 304: 2-{[2-Fluoro-6-(2H-1,2,3-triazol-2-yl)phenyl]carbonyl}-5-(4-methyl-6-morpholin-4-ylpyrimidin-2-yl)octahydropyrrolo[3,4-c]pyrrole.

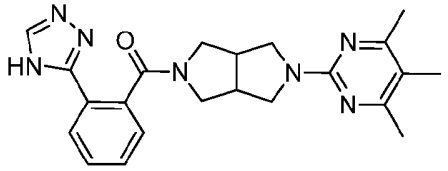
[0980]



[0981] A mixture of Intermediate 58 (137 mg, 0.254 mmol) and morpholine (1.3 mL) was stirred 14 h at room temperature. The mixture was concentrated *in vacuo.* Chromatography (DCM to 8% 2 M NH_3 in MeOH/DCM) afforded the desired product as a pale yellow foam (95 mg, 78%). MS (ESI) mass calculated for $C_{24}H_{27}FN_8O_2$, 478.53; m/z found, 479.3. ^1H NMR (500 MHz, $CDCl_3$): 7.86 - 7.78 (m, 2H), 7.72 (s, 1 H), 7.51 - 7.44 (m, 1 H), 7.18-7.10 (m, 1 H), 5.77 - 5.72 (m, 1 H), 3.99 - 3.47 (m, 13H), 3.28 - 3.21 (m, 1 H), 3.09 - 2.91 (m, 2H), 2.90-2.86 (m, 2H), 2.25 (s, 3H).

Example 305: 2-{[2-(4H-1,2,4-Triazol-3-yl)phenyl]carbonyl]-5-(4,5,6-trimethylpyrimidin-2-yl)octahydropyrrolo[3,4-c]pyrrole.

[0982]

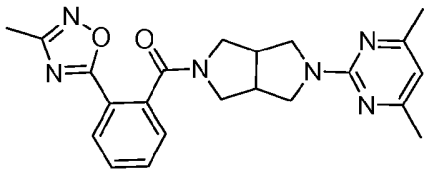


[0983] Step A: (2-(4H-1,2,4-Triazol-3-yl)phenyl)(hexahydropyrrolo[3,4-c]pyrrol-2(1 H)-yl)methanone. (2-(4H-1,2,4-Triazol-3-yl)phenyl)(hexahydropyrrolo[3,4-c]pyrrol-2(1 H)-yl)methanone was prepared in a manner analogous to Example 303, substituting Intermediate 59 for the product of Example 303 in Step C. MS (ESI) mass calculated for $C_{15}H_{17}NO$, 283.14; m/z found, 284.2.

[0984] Step B: 2-{[2-(4H-1,2,4-Triazol-3-yl)phenyl]carbonyl}-5-(4,5,6-trimethylpyrimidin-2-yl)octahydropyrrolo[3,4-c]pyrrole. The product of Step A (167 mg, 0.421 mmol), Intermediate 56 (66 mg, 0.421 mmol) and DIPEA (0.29 mL, 1.68 mmol) were heated for 2 h at 200 °C in ACN (1.4 mL) in the microwave. The mixture was concentrated *in vacuo.* The crude product was purified using Agilent HPLC (basic system) to yield impure material. This material was subsequently purified using normal phase chromatography (DCM to 8% 2M NH_3 in MeOH/DCM) to afford the title compound (49 mg, 29%). MS (ESI) mass calculated for $C_{22}H_{25}N_7O$, 403.49; m/z found, 404.2. ^1H NMR (500 MHz, $CDCl_3$): 8.16 (d, *J* = 7.8 Hz, 1 H), 8.06 (s, 1 H), 7.54 - 7.49 (m, 1 H), 7.48 - 7.44 (m, 1 H), 7.35 (d, *J* = 7.5 Hz, 1 H), 3.96 - 3.89 (m, 1 H), 3.85 - 3.77 (m, 1 H), 3.74 - 3.68 (m, 1 H), 3.68 - 3.55 (m, 2H), 3.42 (br s, 2H), 3.16 (br s, 1 H), 3.04 - 2.96 (m, 1 H), 2.89 (br s, 1 H), 2.32 (s, 6H), 2.05 (s, 3H).

Example 306: 2-(4,6-Dimethylpyrimidin-2-yl)-5-{[2-(3-methyl-1,2,4-oxadiazol-5-yl)phenyl]carbonyl}octahydropyrrolo[3,4-c]pyrrole.

[0985]

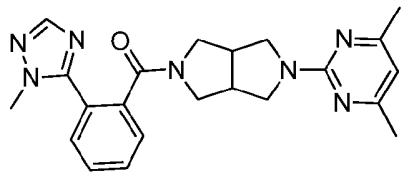


[0986] The title compound was prepared in a manner analogous to Intermediate 59 substituting Intermediate 23 for Intermediate 15 and 2-(3-methyl-1,2,4-oxadiazol-5-yl)benzoic acid for 2-(4H-[1,2,4]triazol-3-yl)-benzoic acid. MS (ESI) mass calculated for $C_{22}H_{24}N_6O_2$, 404.48; m/z found, 405.2. ^1H NMR (500 MHz, $CDCl_3$): 8.10 (dd, *J* = 7.9 Hz, 0.9 Hz, 1 H), 7.62 (td, *J* = 7.6 Hz, 1.2 Hz, 1 H), 7.53 (td, *J* = 7.7 Hz, 1.3 Hz, 1 H), 7.42 (dd, *J* = 7.6 Hz, 1.0 Hz, 1 H), 6.28 (s, 1 H), 3.99 - 3.88 (m, 2H), 3.80 - 3.75 (m, 1 H), 3.74 - 3.65 (m, 2H), 3.53 - 3.48 (m, 1 H), 3.46 - 3.40 (m, 1 H), 3.12 - 3.04

(m, 2H), 3.01 - 2.93 (m, 1 H), 2.42 (s, 3H), 2.28 (s, 6H).

Example 307: 2-(4,6-Dimethylpyrimidin-2-yl)-5-{[2-(1-methyl-1H-1,2,4-triazol-5-yl)phenyl]carbonyl}octahydropyrrolo[3,4-c]pyrrole.

[0987]

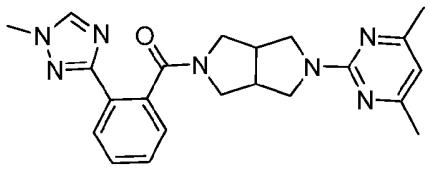


[0988] Step A: (Hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl)(2-(1-methyl-1H-1,2,4-triazol-5-yl)phenyl)methanone. Intermediate 60 (100 mg, 0.252 mmol), DCM (2.5 mL), TFA (0.5 mL) were stirred at room temperature for 2 h and then concentrated *in vacuo.* The residue was dissolved in DCM and treated with Dowex 550 A resin. After stirring for 2 h the resin was removed by filtration and the filtrate was concentrated *in vacuo* to a colorless oil which was taken on to the next step without further purification. MS (ESI) mass calculated for $C_{16}H_{19}N_5O$; 297.16; m/z found, 298.0.

[0989] Step B: 2-(4,6-Dimethylpyrimidin-2-yl)-5-{[2-(1-methyl-1H-1,2,4-triazol-5-yl)phenyl]carbonyl}octahydropyrrolo[3,4-c]pyrrole. Example 307 was prepared in a manner analogous to Example 290 substituting the product of Step A for Intermediate 20 and 2-chloro-4,6-dimethylpyrimidine for Intermediate 55. MS (ESI) mass calculated for $C_{22}H_{25}N_7O$, 403.21; m/z found, 404.2. ^{1}H NMR (500 MHz, $CDCl_3$): 7.83 (s, 1 H), 7.58 - 7.49 (m, 2H), 7.47 - 7.42 (m, 2H), 6.28 (s, 1 H), 3.85 - 3.80 (m, 4H), 3.75 - 3.69 (m, 2H), 3.55 - 3.45 (m, 4H), 3.24 - 3.19 (m, 1 H), 2.99 - 2.88 (m, 2H), 2.29 (s, 6H).

Example 308: 2-(4,6-Dimethylpyrimidin-2-yl)-5-{[2-(1-methyl-1H-1,2,4-triazol-3-yl)phenyl]carbonyl}octahydropyrrolo[3,4-c]pyrrole.

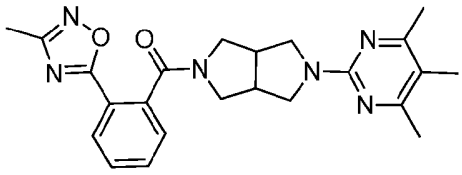
[0990]



[0991] The title compound was prepared in a manner analogous to Example 307 substituting Intermediate 61 for Intermediate 60 in Step A. MS (ESI) mass calculated for $C_{22}H_{25}N_7O$, 403.21; m/z found, 404.2. ^{1}H NMR (500 MHz, $CDCl_3$): 8.12 - 8.06 (m, 1 H), 7.93 (s, 1 H), 7.49 - 7.38 (m, 2H), 7.37 - 7.29 (m, 1 H), 6.27 (s, 1 H), 3.95 - 3.83 (m, 5H), 3.78 - 3.60 (m, 3H), 3.47 - 3.38 (m, 2H), 3.08 - 2.98 (m, 2H), 2.95 - 2.86 (m, 1 H), 2.29 (s, 6H).

Example 309: 2-{[2-(3-Methyl-1,2,4-oxadiazol-5-yl)phenyl]carbonyl}-5-(4,5,6-trimethylpyrimidin-2-yl)octahydropyrrolo[3,4-c]pyrrole.

[0992]

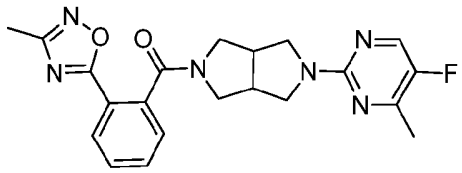


[0993] The title compound was prepared in a manner analogous to Example 307 substituting Intermediate 62 for Intermediate 60 in Step A, and Intermediate 56 for 2-chloro-4,6-dimethylpyrimidine in Step B. MS (ESI) mass calculated for $C_{23}H_{26}N_6O_2$, 418.21; m/z found, 419.3. ^{1}H NMR (500 MHz, $CDCl_3$): 8.09 (dd, *J* = 7.9 Hz, 0.9 Hz, 1 H), 7.60 (td, *J* = 7.6 Hz, 1.2 Hz, 1 H), 7.52 (td, *J* = 7.7 Hz, 1.3 Hz, 1 H), 7.41 (dd, *J* = 7.6 Hz, 1.0 Hz, 1 H), 3.98 - 3.93 (m, 1 H), 3.90 -

3.84 (m, 1 H), 3.79 - 3.73 (m, 1 H), 3.70 - 3.61 (m, 2H), 3.50 - 3.44 (m, 1 H), 3.44 - 3.38 (m, 1 H), 3.10 - 3.02 (m, 2H), 2.98 - 2.91 (m, 1 H), 2.42 (s, 3H), 2.30 (s, 6H), 2.06 (s, 3H).

Example 310: 2-(5-Fluoro-4-methylpyrimidin-2-yl)-5-{[2-(3-methyl-1,2,4-oxadiazol-5-yl)phenyl]carbonyl}octahydropyrrolo[3,4-c]pyrrole.

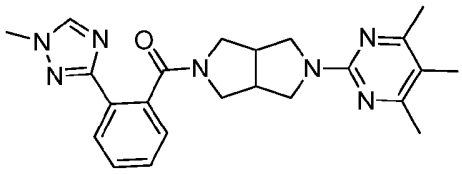
[0994]



[0995] The title compound was prepared in a manner analogous to Example 307 substituting Intermediate 62 for Intermediate 60 in Step A, and Intermediate 55 for 2-chloro-4,6-dimethylpyrimidine in Step B. MS (ESI) mass calculated for $C_{21}H_{21}FN_6O_2$, 408.17; m/z found, 409.2. ^{1}H NMR (500 MHz, $CDCl_3$): 8.10 (dd, *J* = 7.9 Hz, 0.9 Hz, 1 H), 8.04 (d, *J* = 1.8 Hz, 1 H), 7.61 (td, *J* = 7.6 Hz, 1.3 Hz, 1 H), 7.53 (td, *J* = 7.7 Hz, 1.3 Hz, 1 H), 7.42 (dd, *J* = 7.6 Hz, 1.0 Hz, 1 H), 4.00 - 3.94 (m, 1 H), 3.90 - 3.83 (m, 1 H), 3.79 - 3.74 (m, 1 H), 3.71 - 3.60 (m, 2H), 3.47 - 3.41 (m, 2H), 3.13 - 3.06 (m, 2H), 3.02 - 2.94 (m, 1 H), 2.41 (s, 3H), 2.35 (d, *J* = 2.5 Hz, 3H).

Example 311: 2-{[2-(1-Methyl-1H-1,2,4-triazol-3-yl)phenyl]carbonyl}-5-(4,5,6-trimethylpyrimidin-2-yl)octahydropyrrolo[3,4-c]pyrrole.

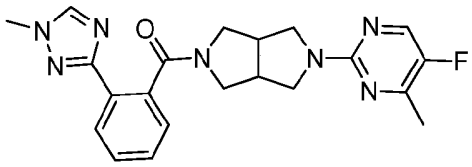
[0996]



[0997] The title compound was prepared in a manner analogous to Example 307 substituting Intermediate 61 for Intermediate 60 in Step A, and Intermediate 56 for 2-chloro-4,6-dimethylpyrimidine in Step B. MS (ESI) mass calculated for $C_{23}H_{27}N_7O$, 417.23; m/z found, 418.2. ^{1}H NMR (500 MHz, $CDCl_3$): 8.11 - 8.04 (m, 1 H), 7.93 (s, 1 H), 7.47 - 7.38 (m, 2H), 7.34 - 7.30 (m, 1 H), 3.94 - 3.79 (m, 5H), 3.75 - 3.69 (m, 1 H), 3.66 - 3.56 (m, 2H), 3.43 - 3.36 (m, 2H), 3.07 - 2.97 (m, 2H), 2.92 - 2.85 (m, 1 H), 2.32 (s, 6H), 2.06 (s, 3H).

Example 312: 2-(5-Fluoro-4-methylpyrimidin-2-yl)-5-{[2-(1-methyl-1H-1,2,4-triazol-3-yl)phenyl]carbonyl}octahydropyrrolo[3,4-c]pyrrole.

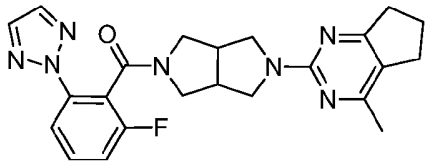
[0998]



[0999] The title compound was prepared in a manner analogous to Example 307 substituting Intermediate 61 for Intermediate 60 in Step A, and Intermediate 55 for 2-chloro-4,6-dimethylpyrimidine in Step B. MS (ESI) mass calculated for $C_{21}H_{22}FN_7O$, 407.19; m/z found, 408.2. ^{1}H NMR (500 MHz, $CDCl_3$): 8.09 (dd, *J* = 7.5 Hz, 1.5 Hz, 1 H), 8.04 (d, *J* = 1.7 Hz, 1 H), 7.94 (s, 1 H), 7.47 - 7.39 (m, 2H), 7.34 - 7.30 (m, 1 H), 3.97 - 3.85 (m, 4H), 3.85 - 3.78 (m, 1 H), 3.76 - 3.70 (m, 1 H), 3.66 - 3.55 (m, 2H), 3.45 - 3.36 (m, 2H), 3.09 - 3.00 (m, 2H), 2.97 - 2.88 (m, 1 H), 2.35 (d, *J* = 2.5 Hz, 3H).

Example 313: 2-[5-{[2-Fluoro-6-(2H-1,2,3-triazol-2-yl)phenyl]carbonyl}hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl]-4-methyl-6,7-dihydro-5H-cyclopenta[d]pyrimidine.

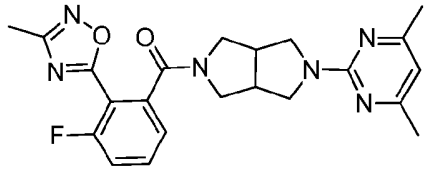
[1000]



[1001] The title compound was prepared in a manner analogous to Example 290 substituting Intermediate 16 for Intermediate 20 and 2-chloro-4-methyl-6,7-dihydro-5*H*-cyclopenta[*d*]pyrimidine for Intermediate 55. MS (ESI) mass calculated for $C_{23}H_{24}FN_7O$, 433.20; m/z found, 434.2. 1 H NMR (500 MHz, $CDCl_3$): 7.87 - 7.78 (m, 2H), 7.72 (s, 1 H), 7.49 - 7.42 (m, 1 H), 7.17 - 7.09 (m, 1 H), 4.01 - 3.84 (m, 2H), 3.82 - 3.49 (m, 5H), 3.29 - 3.22 (m, 1 H), 3.13 - 2.93 (m, 2H), 2.86 - 2.79 (m, 2H), 2.78 - 2.72 (m, 2H), 2.28 (s, 3H), 2.09 - 2.00 (m, 2H).

Example 314: 2-(4,6-Dimethylpyrimidin-2-yl)-5-{[3-fluoro-2-(3-methyl-1,2,4-oxadiazol-5-yl)phenyl]carbonyl}octahydropyrrolo[3,4-c]pyrrole.

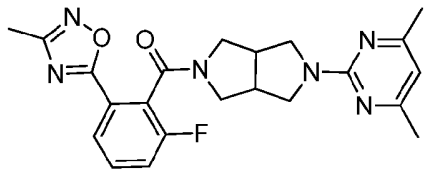
[1002]



[1003] The title compound was prepared in a manner analogous to Intermediate 59 substituting Intermediate 23 for Intermediate 15 and Intermediate 63 for 2-(4H-[1,2,4]triazol-3-yl)-benzoic acid. MS (ESI) mass calculated for $C_{22}H_{23}FN_6O_2$, 422.19; m/z found, 423.2. ^{1}H NMR (500 MHz, $CDCl_3$): 7.62 - 7.56 (m, 1 H), 7.31 - 7.26 (m, 1 H), 7.24 - 7.20 (m, 1 H), 6.29 (s, 1 H), 3.93 - 3.86 (m, 2H), 3.77-3.62 (m, 3H), 3.57-3.47 (m, 2H), 3.21 -3.16 (m, 1 H), 3.10-2.96 (m, 2H), 2.43 (s, 3H), 2.28 (s, 6H).

Example 315: 2-(4,6-Dimethylpyrimidin-2-yl)-5-{[2-fluoro-6-(3-methyl-1,2,4-oxadiazol-5-yl)phenyl]carbonyl}octahydropyrrolo[3,4-c]pyrrole.

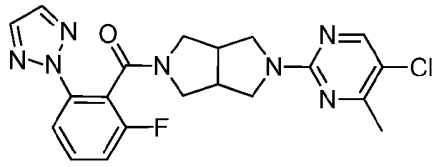
[1004]



[1005] The title compound was prepared in a manner analogous to Intermediate 59 substituting Intermediate 23 for Intermediate 15 and Intermediate 64 for 2-(4H-[1,2,4]triazol-3-yl)-benzoic acid. MS (ESI) mass calculated for $C_{22}H_{23}FN_6O_2$, 422.19; m/z found, 423.2. ^{1}H NMR (500 MHz, $CDCl_3$): 7.96 - 7.86 (m, 1 H), 7.55 - 7.47 (m, 1 H), 7.38 - 7.29 (m, 1 H), 6.32 - 6.23 (m, 1 H), 3.99 - 3.46 (m, 7H), 3.27 - 2.95 (m, 3H), 2.49 - 2.37 (m, 3H), 2.36 - 2.21 (m, 6H).

Example 316: 2-(5-Chloro-4-methylpyrimidin-2-yl)-5-{[2-fluoro-6-(2H-1,2,3-triazol-2-yl)phenyl]carbonyl}octahydropyrrolo[3,4-c]pyrrole.

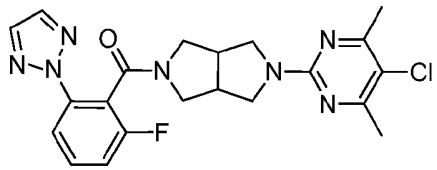
[1006]



[1007] The title compound was prepared in a manner analogous to Example 290 substituting Intermediate 16 for Intermediate 20 and Intermediate 65 for Intermediate 55. MS (ESI) mass calculated for $C_{20}H_{19}ClFN_7O$, 427.13; m/z found, 428.1. 1 H NMR (500 MHz, $CDCl_3$): 8.13 (d, *J* = 1.3 Hz, 1 H), 7.87 - 7.79 (m, 2H),7.71 (s, 1H), 7.51 - 7.43 (m, 1 H), 7.17 - 7.11 (m, 1 H), 4.00-3.54 (m, 7H), 3.28 - 3.23 (m, 1 H), 3.14 - 2.97 (m, 2H), 2.43 (s, 3H).

Example 317: 2-(5-Chloro-4,6-dimethylpyrimidin-2-yl)-5-{[2-fluoro-6-(2H-1,2,3-triazol-2-yl)phenyl]carbonyl}octahydropyrrolo[3,4-c]pyrrole.

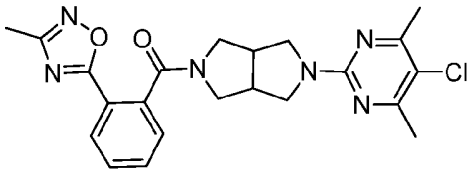
[1008]



[1009] The title compound was prepared in a manner analogous to Example 290 substituting Intermediate 16 for Intermediate 20 and Intermediate 66 for Intermediate 55. MS (ESI) mass calculated for $C_{21}H_{21}ClFN_7O$, 441.15; m/z found, 442.1. 1 H NMR (500 MHz, $CDCl_3$): 7.87 - 7.79 (m, 2H), 7.71 (s, 1 H), 7.50 - 7.44 (m, 1 H), 7.17 - 7.11 (m, 1 H), 4.00 - 3.73 (m, 3H), 3.70 - 3.46 (m, 4H), 3.27 - 3.22 (m, 1 H), 3.12 - 2.94 (m, 2H), 2.42 (s, 6H).

Example 318: 2-(5-Chloro-4,6-dimethylpyrimidin-2-yl)-5-{[2-(3-methyl-1,2,4-oxadiazol-5-yl)phenyl]carbonyl}octahydropyrrolo[3,4-c]pyrrole.

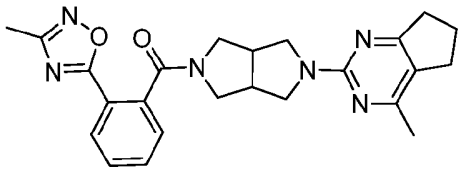
[1010]



[1011] The title compound was prepared in a manner analogous to Example 307 substituting Intermediate 62 for Intermediate 60 in Step A, and Intermediate 66 for 2-chloro-4,6-dimethylpyrimidine in Step B. MS (ESI) mass calculated for $C_{22}H_{23}ClN_6O_2$, 438.16; m/z found, 439.2. 1 H NMR (500 MHz, $CDCl_3$): 8.11 (dd, *J* = 7.6 Hz, 1.2 Hz, 1 H), 7.62 (td, *J* = 7.6 Hz, 1.2 Hz, 1 H), 7.54 (td, *J* = 7.6 Hz, 1.2 Hz, 1 H), 7.42 (dd, *J* = 7.6 Hz, 1.2 Hz, 1 H), 3.99 - 3.92 (m, 1 H), 3.90 - 3.84 (m, 1 H), 3.80 - 3.74 (m, 1 H), 3.70 - 3.61 (m, 2H), 3.50 - 3.41 (m, 2H), 3.12 - 3.04 (m, 2H), 3.02 - 2.94 (m, 1 H), 2.46 - 2.36 (m, 9H).

Example 319: 4-Methyl-2-[5-{[2-(3-methyl-1,2,4-oxadiazol-5-yl)phenyl]carbonyl}hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl]-6,7-dihydro-5H-cyclopenta[d]pyrimidine.

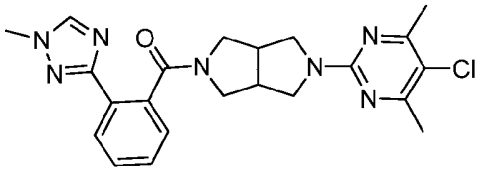
[1012]



[1013] The title compound was prepared in a manner analogous to Example 307 substituting Intermediate 62 for Intermediate 60 in Step A, and 2-chloro-4-methyl-6,7-dihydro-5*H*-cyclopenta[*d*]pyrimidine for 2-chloro-4,6-dimethylpyrimidine in Step B. MS (ESI) mass calculated for $C_{24}H_{26}N_6O_2$, 430.21; m/z found, 431.2. ^{1}H NMR (500 MHz, $CDCl_3$): 8.10 (dd, *J* = 7.9 Hz, 0.9 Hz, 1 H), 7.61 (td, *J* = 7.6 Hz, 1.3 Hz, 1 H), 7.53 (td, *J* = 7.6 Hz, 1.3 Hz, 1 H), 7.42 (dd, *J* = 7.6 Hz, 1.0 Hz, 1 H), 3.99 - 3.87 (m, 2H), 3.80 - 3.74 (m, 1 H), 3.73 - 3.65 (m, 2H), 3.52 - 3.47 (m, 1 H), 3.45 - 3.39 (m, 1 H), 3.11 - 3.05 (m, 2H), 3.01 - 2.93 (m, 1 H), 2.83 - 2.72 (m, 4H), 2.43 (s, 3H), 2.26 (s, 3H), 2.08 - 2.00 (m, 2H).

Example 320: 2-(5-Chloro-4,6-dimethylpyrimidin-2-yl)-5-{[2-(1-methyl-1H-1,2,4-triazol-3-yl)phenyl]carbonyl}octahydropyrrolo[3,4-c]pyrrole.

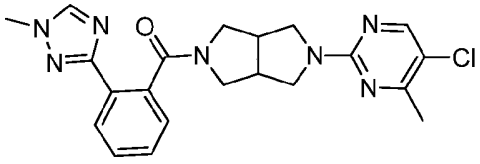
[1014]



[1015] The title compound was prepared in a manner analogous to Example 307 substituting Intermediate 61 for Intermediate 60 in Step A, and Intermediate 66 for 2-chloro-4,6-dimethylpyrimidine in Step B. MS (ESI) mass calculated for $C_{22}H_{24}ClN_7O$, 437.17; m/z found, 438.2. ^{1}H NMR (500 MHz, $CDCl_3$): 8.12 - 8.06 (m, 1 H), 7.95 (s, 1 H), 7.47 - 7.40 (m, 2H), 7.34 - 7.31 (m, 1 H), 3.96 - 3.85 (m, 4H), 3.85 - 3.78 (m, 1 H), 3.77 - 3.70 (m, 1 H), 3.65 - 3.57 (m, 2H), 3.45 - 3.38 (m, 2H), 3.08 - 3.00 (m, 2H), 2.95 - 2.87 (m, 1 H), 2.41 (s, 6H).

Example 321: 2-(5-Chloro-4-methylpyrimidin-2-yl)-5-{[2-(1-methyl-1H-1,2,4-triazol-3-yl)phenyl]carbonyl}octahydropyrrolo[3,4-c]pyrrole.

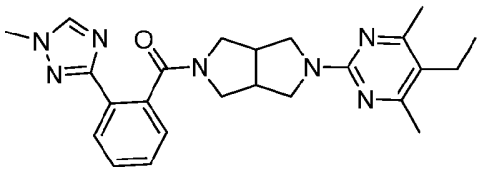
[1016]



[1017] The title compound was prepared in a manner analogous to Example 307 substituting Intermediate 61 for Intermediate 60 in Step A, and Intermediate 65 for 2-chloro-4,6-dimethylpyrimidine in Step B. MS (ESI) mass calculated for $C_{21}H_{22}ClN_7O$, 423.16; m/z found, 424.2. ^{1}H NMR (500 MHz, $CDCl_3$): 8.15 - 8.06 (m, 2H), 7.96 (s, 1 H), 7.48 - 7.40 (m, 2H), 7.36 - 7.30 (m, 1 H), 3.96 - 3.80 (m, 5H), 3.79 - 3.70 (m, 1 H), 3.67 - 3.55 (m, 2H), 3.47 - 3.37 (m, 2H), 3.10 - 3.01 (m, 2H), 2.99 - 2.90 (m, 1 H), 2.41 (s, 3H).

Example 322: 2-(5-Ethyl-4,6-dimethylpyrimidin-2-yl)-5-{[2-(1-methyl-1H-1,2,4-triazol-3-yl)phenyl]carbonyl}octahydropyrrolo[3,4-c]pyrrole.

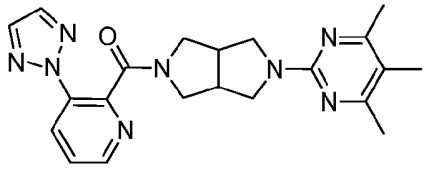
[1018]



[1019] The title compound was prepared in a manner analogous to Example 307 substituting Intermediate 61 for Intermediate 60 in Step A, and Intermediate 67 for 2-chloro-4,6-dimethylpyrimidine in Step B. MS (ESI) mass calculated for $C_{24}H_{29}N_7O$, 431.24; m/z found, 432.2. ^{1}H NMR (500 MHz, $CDCl_3$): 8.11 - 8.05 (m, 1 H), 7.95 (s, 1 H), 7.48 - 7.39 (m, 2H), 7.35 - 7.30 (m, 1 H), 3.96 - 3.79 (m, 5H), 3.77 - 3.70 (m, 1 H), 3.66 - 3.55 (m, 2H), 3.43 - 3.35 (m, 2H), 3.08 - 2.97 (m, 2H), 2.94 - 2.86 (m, 1 H), 2.52 (q, *J* = 7.5 Hz, 2H), 2.34 (s, 6H), 1.08 (t, *J* = 7.5 Hz, 3H).

Example 323: 2-{[3-(2H-1,2,3-Triazol-2-yl)pyridin-2-yl]carbonyl}-5-(4,5,6-trimethylpyrimidin-2-yl)octahydropyrrolo[3,4-c]pyrrole.

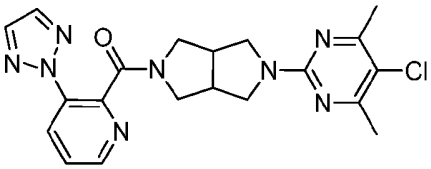
[1020]



[1021] The title compound was prepared in a manner analogous to Example 290 substituting Intermediate 68 for Intermediate 20 and Intermediate 56 for Intermediate 55. MS (ESI) mass calculated for $C_{21}H_{24}N_8O$, 404.21; m/z found, 405.2. ^{1}H NMR (500 MHz, $CDCl_3$): 8.62 (dd, *J* = 4.7 Hz, 1.4 Hz, 1H), 8.33 (dd, *J* = 8.3 Hz, 1.4 Hz, 1 H), 7.79 (s, 2H), 7.48 (dd, *J* = 8.3 Hz, 4.7 Hz, 1 H), 3.96 - 3.84 (m, 2H), 3.78 - 3.63 (m, 4H), 3.60 - 3.54 (m, 1 H), 3.29 - 3.23 (m, 1 H), 3.12 - 2.98 (m, 2H), 2.33 (s, 6H), 2.07 (s, 3H).

Example 324: 2-(5-Chloro-4,6-dimethylpyrimidin-2-yl)-5-{[3-(2H-1,2,3-triazol-2-yl)pyridin-2-yl]carbonyl}octahydropyrrolo[3,4-c]pyrrole.

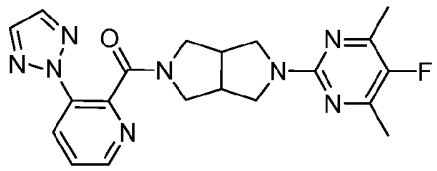
[1022]



[1023] The title compound was prepared in a manner analogous to Example 290 substituting Intermediate 68 for Intermediate 20 and Intermediate 66 for Intermediate 55. MS (ESI) mass calculated for $C_{20}H_{21}ClN_8O$, 424.15; m/z found, 425.1. ^{1}H NMR (500 MHz, $CDCl_3$): 8.62 (dd, *J* = 4.7 Hz, 1.4 Hz, 1 H), 8.33 (dd, *J* = 8.3 Hz, 1.4 Hz, 1 H), 7.81 (s, 2H), 7.48 (dd, *J* = 8.3 Hz, 4.7 Hz, 1 H), 3.95 - 3.89 (m, 1 H), 3.89 - 3.83 (m, 1 H), 3.79 - 3.74 (m, 1 H), 3.73 - 3.64 (m, 3H), 3.60 - 3.53 (m, 1 H), 3.28 - 3.23 (m, 1 H), 3.13 - 2.98 (m, 2H), 2.42 (s, 6H).

Example 325: 2-(5-Fluoro-4,6-dimethylpyrimidin-2-yl)-5-{[3-(2H-1,2,3-triazol-2-yl)pyridin-2-yl]carbonyl}octahydropyrrolo[3,4-c]pyrrole.

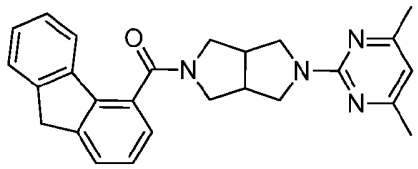
[1024]



[1025] The title compound was prepared in a manner analogous to Example 290 substituting Intermediate 68 for Intermediate 20 and Intermediate 69 for Intermediate 55. MS (ESI) mass calculated for $C_{20}H_{21}FN_8O$, 408.18; m/z found, 409.1. ^{1}H NMR (500 MHz, $CDCl_3$): 8.62 (dd, *J* = 4.7 Hz, 1.4 Hz, 1 H), 8.34 (dd, *J* = 8.3 Hz, 1.4 Hz, 1 H), 7.79 (s, 2H), 7.48 (dd, *J* = 8.3 Hz, 4.7 Hz, 1 H), 3.97 - 3.89 (m, 1 H), 3.88 - 3.82 (m, 1 H), 3.78 - 3.73 (m, 1 H), 3.72 - 3.62 (m, 3H), 3.57 - 3.51 (m, 1 H), 3.29 - 3.23 (m, 1 H), 3.12 - 2.99 (m, 2H), 2.33 (d, *J* =2.6Hz, 6H).

Example 326: 2-(4,6-Dimethylpyrimidin-2-yl)-5-(9H-fluoren-4-ylcarbonyl)octahydropyrrolo[3,4-c]pyrrole.

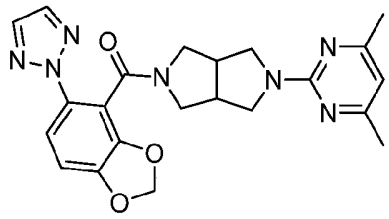
[1026]



[1027] The title compound was prepared in a manner analogous to Example15 substituting 9H-fluorene-4-carboxylic acid for 3-fluoro-2-[1,2,3]triazol-2-yl-benzoic acid. MS (ESI) mass calculated for $C_{20}H_{21}FN_8O$, 410.52; m/z found, 411.2. ^{1}H NMR (400 MHz, $CDCl_3$): 7.68-7.61 (m, 1 H), 7.58-7.51 (m, 2H), 7.35 - 7.23 (m, 4H), 6.28 (s, 1 H), 4.13 (dd, *J* = 12.8, 7.9 Hz, 1 H), 3.94 - 3.87 (m, 3H), 3.80 (dd, *J* = 12.8, 5.0 Hz, 1 H), 3.73 - 3.64 (m, 2H), 3.46 (s, 2H), 3.11 (dtd, *J* = 12.5, 7.5,4.9 Hz, 2H), 2.97 - 2.86 (m, 1 H), 2.28 (s, 6H).

Example 327: [5-(4,6-Dimethyl-pyrimidin-2-yl)-hexahydro-pyrrolo[3,4-c]pyrrol-2-yl]-(5-[1,2,3]triazol-2-yl-benzo[1,3]dioxol-4-yl)-methanone.

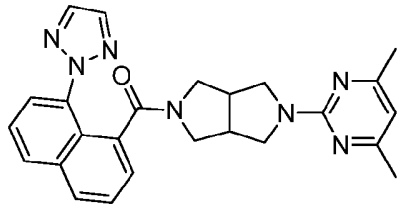
[1028]



[1029] The title compound was prepared in a manner analogous to Example 275 substituting 5-[1,2,3]triazol-2-yl-benzo[1,3]dioxole-4-carboxylic acid (Intermediate 76) for 6-methyl-2-[1,2,3]triazol-2-yl-nicotinic acid. MS (ESI) mass calcd. for $C_{22}H_{23}N_7O_3$, 433.47; m/z found 434.3 $[M+H]^+$ ^{1}H NMR (400 MHz, $CDCl_3$): 7.75 (s, 1 H), 7.64 (s, 1 H), 7.42 (t, *J* = 8.7 Hz, 1 H), 6.89 (d, *J* = 8.5 Hz, 1 H), 6.29 (d, *J* = 3.4 Hz, 1 H), 6.13 - 5.99 (m, 2H), 3.95 - 3.75 (m, 3H), 3.74 - 3.50 (m, 5H), 3.26 (ddd, *J* = 43.0, 10.7, 5.1 Hz, 1 H), 3.09 - 2.92 (m, 2H), 2.30 (s, 6H).

Example 328: [5-(4,6-Dimethyl-pyrimidin-2-yl)-hexahydro-pyrrolo[3,4-c]pyrrol-2-yl]-(8-[1,2,3]triazol-2-yl-naphthalen-1-yl)-methanone.

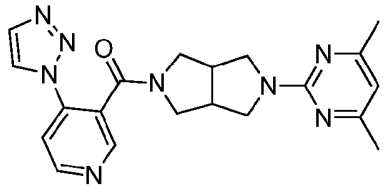
[1030]



[1031] The title compound was prepared in a manner analogous to Example 275 substituting 8-[1,2,3]triazol-2-yl-naphthalene-1-carboxylic acid (Intermediate 75) for 6-methyl-2-[1,2,3]triazol-2-yl-nicotinic acid. MS (ESI) mass calcd. for $C_2H_{25}N_7O$, 439.41; m/z found 440.3 $[M+H]^+$ ^1H NMR (400 MHz, $CDCl_3$) 8.00 (m, *J* = 11.0, 7.1, 2.7 Hz, 2H), 7.80 (m, *J* = 51.6 Hz, 2H), 7.69 - 7.49 (m, 4H), 6.31 (m, *J* = 12.7 Hz, 1 H), 3.91 (m, *J* = 11.6, 7.7 Hz, 1 H), 3.85 - 3.62 (m, 4H), 3.57-3.47 (m, 2H), 3.38-3.28 (m, 1 H), 3.18 (m, *J* = 10.9, 5.9 Hz, 1 H), 3.06 - 2.93 (m, 2H), 2.30 (m, *J* = 8.3 Hz, 6H).

Example 329: [5-(4,6-Dimethyl-pyrimidin-2-yl)-hexahydro-pyrrolo[3,4-c]pyrrol-2-yl]-(4-[1,2,3]triazol-1-yl-pyridin-3-yl)-methanone.

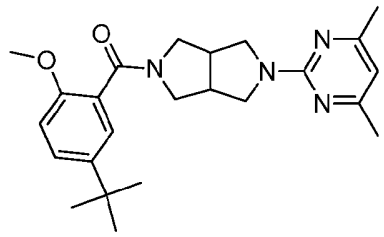
[1032]



[1033] The title compound was prepared in a manner analogous to Example 275 substituting 4-(1H-1,2,3-triazol-1-yl)nicotinic acid (Intermediate 81) for 6-methyl-2-[1,2,3]triazol-2-yl-nicotinic acid. MS (ESI) mass calcd. for $C_{20}H_{22}N_8O$, 390.40; m/z found 391.4 $[M+H]^+$ ^1H NMR (400 MHz, $CDCl_3$): 8.83 (d, *J* = 5.4 Hz, 1 H), 8.75 (s, 1 H), 8.10 (d, *J* = 1.0 Hz, 1 H), 7.82 (d, *J* = 0.9 Hz, 1 H), 7.69 (d, *J* = 5.4 Hz, 1H), 6.31 (s, 1 H), 3.86 (ddd, *J* = 16.6, 12.3, 7.7 Hz, 2H), 3.75-3.67 (m, 1 H), 3.56 (ddd, *J* = 16.5, 12.3, 4.8 Hz, 2H), 3.35 (dt, *J* = 14.9, 7.7 Hz, 2H), 3.04 - 2.86 (m, 3H), 2.30 (s, 6H).

Example 330: (5-tert-Butyl-2-methoxy-phenyl)-[5-(4,6-dimethyl-pyrimidin-2-yl)-hexahydro-pyrrolo[3,4-c]pyrrol-2-yl]-methanone.

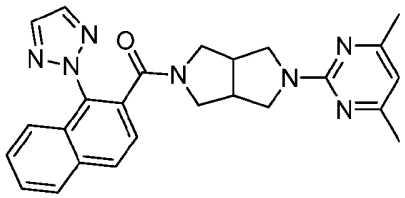
[1034]



[1035] The title compound was prepared in a manner analogous to Example 275 substituting 5-tert-butyl-2-methoxy-benzoic acid for 6-methyl-2-[1,2,3]triazol-2-yl-nicotinic acid. MS (ESI) mass calcd. for $C_{24}H_{32}N_4O_2$, 408.54; m/z found 409.3 $[M+H]^+$. ^1H NMR (400 MHz, $CDCl_3$): 7.34 (dd, *J* = 8.7, 2.5 Hz, 1H), 7.27 - 7.24 (m, 1 H), 6.82 (d, *J* = 8.7 Hz, 1 H), 6.29 (s, 1 H), 3.96 (dd, *J* = 12.7, 7.9 Hz, 1 H), 3.87 (dd, *J* = 11.6, 7.4 Hz, 1 H), 3.80 - 3.73 (m, 4H), 3.67 - 3.60 (m, 2H), 3.57 - 3.45 (m, 2H), 3.21 (dd, *J* = 11.0, 4.7 Hz, 1 H), 3.09 - 3.00 (m, 1 H), 2.99 - 2.91 (m, 1 H), 2.29 (s, 6H), 1.28 (s, 9H).

Example 331: [5-(4,6-Dimethyl-pyrimidin-2-yl)-hexahydro-pyrrolo[3,4-c]pyrrol-2-yl]-(1-[1,2,3]triazol-2-yl-naphthalen-2-yl)-methanone.

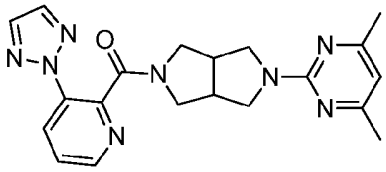
[1036]



[1037] The title compound was prepared in a manner analogous to Example 275 substituting 1-[1,2,3]triazol-2-yl-naphthalene-2-carboxylic acid (Intermediate 73) for 6-methyl-2-[1,2,3]triazol-2-yl-nicotinic acid. MS (ESI) mass calcd. for $C_{25}H_{25}N_7O$, 439.52; m/z found 440.3 $[M+H]^+$. ^1H NMR (400 MHz, $CDCl_3$): 8.02 (d, *J* = 8.4 Hz, 1 H), 7.95 - 7.91 (m, 1 H), 7.88 (s, 2H), 7.72 (d, *J* = 8.3 Hz, 1 H), 7.56 (dddd, *J* = 14.9, 8.2, 6.9, 1.3 Hz, 2H), 7.52 - 7.48 (m, 1 H), 6.30 (s, 1 H), 3.83 (dd, *J* = 11.6, 7.5 Hz, 1 H), 3.72 (ddd, *J* = 14.6, 12.2, 7.1 Hz, 2H), 3.56 - 3.45 (m, 4H), 3.19 (dd, *J* = 11.0, 5.4 Hz, 1 H), 3.00 - 2.87 (m, 3H), 2.31 (s, 6H).

Example 332: [5-(4,6-Dimethyl-pyrimidin-2-yl)-hexahydro-pyrrolo[3,4-c]pyrrol-2-yl]-(3-[1,2,3]triazol-2-yl-pyridin-2-yl)-methanone.

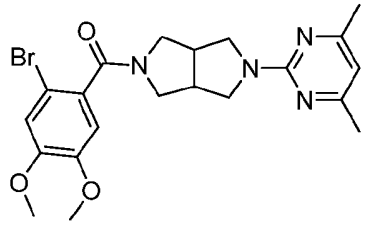
[1038]



[1039] The title compound was prepared in a manner analogous to Example 275 substituting 3-[1,2,3]triazol-2-yl-pyridine-2-carboxylic acid (Intermediate 72) for 6-methyl-2-[1,2,3]triazol-2-yl-nicotinic acid. Excess amounts of acetic acid from the purification of the acid (in previous steps) still remained and allowed the acetamide to be formed in significant quantities as a byproduct, which was isolated in addition to the title compound. MS (ESI) mass calcd. for $C_{20}H_{22}N_8O$, 390.44; m/z found 391.3 $[M+H]^+$ ^1H NMR (400 MHz, $CDCl_3$): 8.62 (dd, *J* = 4.7, 1.3 Hz, 1 H), 8.33 (dd, *J* = 8.3, 1.3 Hz, 1 H), 7.79 (s, 2H), 7.48 (dd, *J* = 8.3, 4.7 Hz, 1 H), 6.28 (s, 1 H), 3.92 (td, *J* = 12.5, 7.4 Hz, 2H), 3.80 - 3.57 (m, 5H), 3.26 (dd, *J* = 10.8, 5.3 Hz, 1 H), 3.12 - 2.98 (m, 2H), 2.30 (s, 6H).

Example 333: (2-Bromo-4,5-dimethoxy-phenyl)-[5-(4,6-dimethyl-pyrimidin-2-yl)-hexahydro-pyrrolo[3,4-c]pyrrol-2-yl]-methanone.

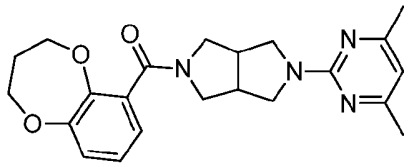
[1040]



[1041] The title compound was prepared in a manner analogous to Example 275 substituting 5-acetamido-2-bromobenzoic acid for 6-methyl-2-[1,2,3]triazol-2-yl-nicotinic acid. MS (ESI) mass calcd. for $C_{21}H_{25}BrN_4O_3$, 461.35; m/z found 463.3 $[M+H]^+$. ^1H NMR (400 MHz, $CDCl_3$): 6.98 (s, 1 H), 6.77 (s, 1 H), 6.30 (s, 1 H), 3.98 - 3.89 (m, 2H), 3.86 (d, *J* = 9.2 Hz, 6H), 3.79 (dd, *J* = 11.6, 7.2 Hz, 1 H), 3.67 - 3.59 (m, 2H), 3.53 (dd, *J* = 11.5, 4.4 Hz, 2H), 3.22 (s, 1 H), 3.12 - 2.96 (m, 2H), 2.29 (s, 6H).

Example 334: (3,4-Dihydro-2H-benzo[b][1,4]dioxepin-6-yl)-[5-(4,6-dimethyl-pyrimidin-2-yl)-hexahydro-pyrrolo[3,4-c]pyrrol-2-yl]-methanone.

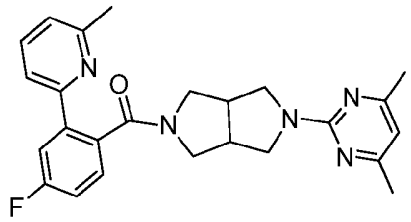
[1042]



[1043] The title compound was prepared in a manner analogous to Example 275 substituting 3,4-dihydro-2H-1,5-benzodioxepine-6-carboxylic acid for 6-methyl-2-[1,2,3]triazol-2-yl-nicotinic acid. MS (ESI) mass calcd. for $C_{22}H_{26}N_4O_3$, 394.47; m/z found 395.3 $[M+H]^+$. ^1H NMR (400 MHz, $CDCl_3$): 6.99 (dd, *J* = 7.9, 1.9 Hz, 1 H), 6.93 (t, *J* = 7.6 Hz, 1 H), 6.88 (dd, *J* = 7.4, 1.9 Hz, 1 H), 6.29 (s, 1 H), 4.20 (s, 2H), 3.90 (ddd, *J* = 19.1, 12.1, 7.6 Hz, 2H), 3.81 - 3.73 (m, 1 H), 3.68 - 3.58 (m, 2H), 3.57 - 3.45 (m, 2H), 3.23 (dd, *J* = 10.9, 4.7 Hz, 1 H), 3.09 - 2.90 (m, 2H), 2.29 (s, 6H), 2.14 (d, *J* = 5.9 Hz, 2H).

Example 335: (5-(4,6-dimethylpyrimidin-2-yl)hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl)(4-fluoro-2-(6-methylpyridin-2-yl)phenyl)methanone.

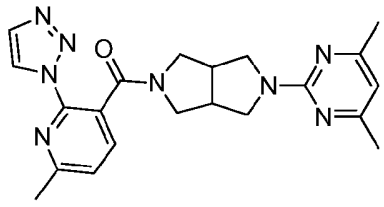
[1044]



[1045] The title compound was prepared in a manner analogous to Example 248, substituting 6-methyl-2-(tributylstannyl)pyridine for 5-methyl-2-(tributylstannyl)pyridine. MS (ESI) mass calcd. for $C_{25}H_{26}FN_5O$, 431.21; found 432.2 $[M+H]^+$.

Example 336: [5-(4,6-Dimethyl-pyrimidin-2-yl)-hexahydro-pyrrolo[3,4-c]pyrrol-2-yl]-(6-methyl-2-[1,2,3]triazol-1-yl-pyridin-3-yl)-methanone.

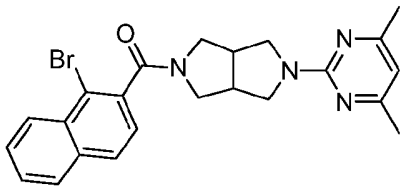
[1046]



[1047] The title compound was prepared in a manner analogous to Example 275 substituting 6-methyl-2-[1,2,3]triazol-1-yl-nicotinic acid (Intermediate 71) for 6-methyl-2-[1,2,3]triazol-2-yl-nicotinic acid. MS (ESI) mass calcd. for $C_{21}H_{24}N_8O$, 404.47; m/z found 405.3 $[M+H]^+$. ^1H NMR (400 MHz, $CDCl_3$): 8.45 (d, *J* = 0.7 Hz, 1 H), 7.78 (s, 1 H), 7.71 (d, *J* = 7.7 Hz, 1 H), 7.26 (t, *J* = 3.9 Hz, 1 H), 6.29 (s, 1 H), 4.01 (dd, *J* = 12.6, 7.7 Hz, 1 H), 3.91 (dd, *J* = 11.6, 7.7 Hz, 1 H), 3.76 (dd, *J* = 11.6, 7.2 Hz, 1 H), 3.65 - 3.58 (m, 2H), 3.51 (ddd, *J* = 16.0, 11.1, 5.9 Hz, 2H), 3.15 (dt, *J* = 10.1, 5.1 Hz, 1H), 3.12-2.95 (m, 2H), 2.61 (s, 3H), 2.30 (s, 6H).

Example 337: (1-Bromo-naphthalen-2-yl)-[5-(4,6-dimethyl-pyrimidin-2-yl)-hexahydro-pyrrolo[3,4-c]pyrrol-2-yl]-methanone.

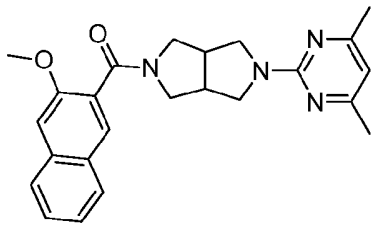
[1048]



[1049] The title compound was prepared in a manner analogous to Example 275 substituting 5-acetamido-2-bromobenzoic acid for 6-methyl-2-[1,2,3]triazol-2-yl-nicotinic acid. MS (ESI) mass calcd. for $C_{23}H_{23}BrN_4O$, 451.36; m/z found 451.3 $[M+H]^+$. ^1H NMR (400 MHz, $CDCl_3$): 8.29 (d, *J* = 7.1 Hz, 1 H), 7.85 (t, *J* = 7.5 Hz, 2H), 7.64 (t, *J* = 7.4 Hz, 1 H), 7.60 - 7.54 (m, 1 H), 7.33 (s, 1 H), 6.30 (s, 1 H), 4.03 (s, 1 H), 3.91 (s, 1 H), 3.77 (dt, *J* = 14.9, 7.4 Hz, 2H), 3.66 (dd, *J* = 11.6, 5.0 Hz, 1 H), 3.51 (d, *J* = 52.5 Hz, 2H), 3.18 (d, *J* = 65.6 Hz, 2H), 2.98 (d, *J* = 21.2 Hz, 1 H), 2.30 (s, 6H).

Example 338: [5-(4,6-Dimethyl-pyrimidin-2-yl)-hexahydro-pyrrolo[3,4-c]pyrrol-2-yl]-(3-methoxy-naphthalen-2-yl)-methanone.

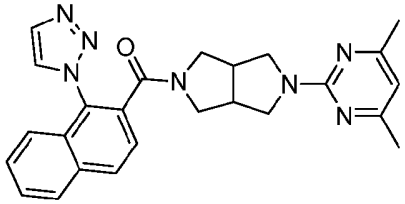
[1050]



[1051] The title compound was prepared in a manner analogous to Example 275 substituting 3-methoxy-2-naphthoic acid for 6-methyl-2-[1,2,3]triazol-2-yl-nicotinic acid. MS (ESI) mass calcd. for $C_{24}H_{26}N_4O_2$, 402.49; m/z found 403.3 $[M+H]^+$. ^1H NMR (400 MHz, $CDCl_3$): 7.78 - 7.70 (m, 3H), 7.49 - 7.43 (m, 1 H), 7.39 - 7.32 (m, 1 H), 7.15 (s, 1 H), 6.29 (s, 1 H), 3.99 (dd, *J* = 12.7, 7.9 Hz, 1 H), 3.93 - 3.85 (m, 4H), 3.79 - 3.62 (m, 3H), 3.56 - 3.45 (m, 2H), 3.21 (dd, *J* = 11.1, 4.9 Hz, 1 H), 3.11 - 3.02 (m, 1 H), 2.99 - 2.90 (m, 1 H), 2.30 (s, 6H).

Example 339: [5-(4,6-Dimethyl-pyrimidin-2-yl)-hexahydro-pyrrolo[3,4-c]pyrrol-2-yl]-(8-[1,2,3]triazol-2-yl-naphthalen-1-yl)-methanone.

[1052]

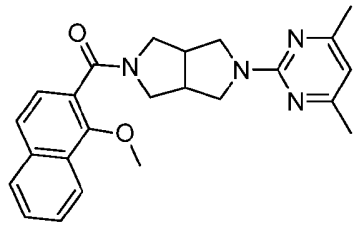


[1053] The title compound was prepared in a manner analogous to Example 275 substituting 1-[1,2,3]triazol-1-yl-naphthalene-2-carboxylic acid (Intermediate 74) for 6-methyl-2-[1,2,3]triazol-2-yl-nicotinic acid. MS (ESI) mass calcd. for $C_{25}H_{25}N_7O$, 439.52; m/z found 440.3 $[M+H]^+$. ^1H NMR (400 MHz, $CDCl_3$): 8.08 (d, *J* = 8.4 Hz, 1 H), 8.01 (d, *J* = 0.8 Hz, 1 H), 7.97 (d, *J* = 8.0 Hz, 1 H), 7.92 (d, *J* = 0.8 Hz, 1 H), 7.65 - 7.59 (m, 1 H), 7.56 (ddd, *J* = 8.1, 7.0, 1.2 Hz, 1 H), 7.51 - 7.47 (m, 1 H), 7.36 (d, *J* = 8.4 Hz, 1 H), 6.29 (s, 1 H), 3.82 (dd, *J* = 11.6, 7.3 Hz, 1 H), 3.76 - 3.63 (m, 2H), 3.56 (dd, *J* = 11.2, 7.1 Hz, 1 H), 3.49 (dd, *J* = 11.5, 3.8 Hz, 1 H), 3.45 - 3.36 (m, 2H), 3.14 (dd, *J* = 11.2, 4.9 Hz, 1 H), 2.96 -

2.84 (m, 2H), 2.29 (s, 6H).

Example 340: [5-(4,6-Dimethyl-pyrimidin-2-yl)-hexahydro-pyrrolo[3,4-c]pyrrol-2-yl]-(1-methoxy-naphthalen-2-yl)-methanone.

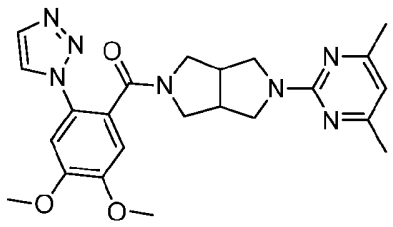
[1054]



[1055] The title compound was prepared in a manner analogous to Example 275 substituting 1-methoxy-2-naphthoic acid for 6-methyl-2-[1,2,3]triazol-2-yl-nicotinic acid. MS (ESI) mass calcd. for $C_{24}H_{26}N_4O_2$, 402.49; m/z found 403.3 $[M+H]^+$. ^1H NMR (400 MHz, $CDCl_3$): 8.19-8.12 (m, 1 H), 7.84 (dt, *J* = 6.2, 2.6 Hz, 1 H), 7.62 (d, *J* = 8.4 Hz, 1 H), 7.56 - 7.49 (m, 2H), 7.36 (d, *J* = 8.4 Hz, 1 H), 6.30 (s, 1 H), 4.07 - 3.97 (m, 4H), 3.91 (dd, *J* = 11.5, 7.5 Hz, 1 H), 3.80 - 3.55 (m, 4H), 3.48 (dd, *J* = 11.5, 4.6 Hz, 1 H), 3.33 (s, 1 H), 3.13 - 3.04 (m, 1 H), 3.01 -2.92 (m, 1H), 2.30 (s, 6H).

Example 341: (4,5-Dimethoxy-2-[1,2,3]triazol-1-yl-phenyl)-[5-(4,6-dimethyl-pyrimidin-2-yl)-hexahydro-pyrrolo[3,4-c]pyrrol-2-yl]-methanone.

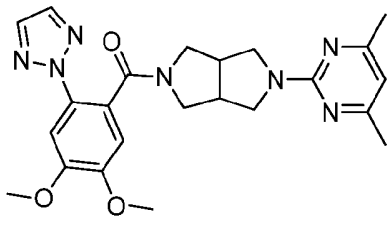
[1056]



[1057] The title compound was prepared in a manner analogous to Example 275 substituting 2,3-dimethoxy-6-[1,2,3]triazol-1-yl-benzoic acid (Intermediate 78) for 6-methyl-2-[1,2,3]triazol-2-yl-nicotinic acid. MS (ESI) mass calcd. for $C_{23}H_{27}N_7O_3$, 449.51; m/z found 450.3 $[M+H]^+$. ^1H NMR (400 MHz, $CDCl_3$): 7.93 (s, 1H), 7.77(s, 1 H), 7.17 (s, 1 H), 6.92 (s, 1 H), 6.29 (s, 1 H), 3.95 (d, *J* = 1.6 Hz, 6H), 3.74 (ddd, *J* = 29.3, 15.1, 7.9 Hz, 3H), 3.46 (d, *J* = 8.6 Hz, 2H), 3.28 (d, *J* = 7.5 Hz, 1 H), 3.14 (d, *J* = 7.4 Hz, 1 H), 2.89 (s, 2H), 2.77 (d, *J* = 6.0 Hz, 1 H), 2.29 (s, 6H).

Example 342: (4,5-Dimethoxy-2-[1,2,3]triazol-2-yl-phenyl)-[5-(4,6-dimethyl-pyrimidin-2-yl)-hexahydro-pyrrolo[3,4-c]pyrrol-2-yl]-methanone.

[1058]

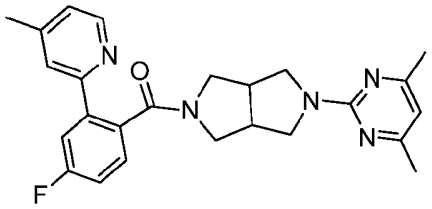


[1059] The title compound was prepared in a manner analogous to Example 275 substituting 2,3-dimethoxy-6-[1,2,3]triazol-2-yl-benzoic acid (Intermediate 77) for 6-methyl-2-[1,2,3]triazol-2-yl-nicotinic acid. MS (ESI) mass calcd. for

$C_{23}H_{27}N_7O_3$, 449.51; m/z found 450.3 $[M+H]^+$. ^1H NMR (400 MHz, $CDCl_3$): 7.70 (s, 2H), 7.45 (s, 1 H), 6.89 (s, 1 H), 6.29 (s, 1 H), 3.97 (s, 3H), 3.93 (s, 3H), 3.84 (dt, *J* = 11.6, 7.6 Hz, 2H), 3.65 (dd, *J* = 12.5, 4.1 Hz, 2H), 3.55 (dd, *J* = 11.5, 5.2 Hz, 1 H), 3.44 (dd, *J* = 11.6, 3.8 Hz, 1 H), 3.27 (s, 1 H), 3.03 - 2.93 (m, 1 H), 2.85 (d, *J* = 24.5 Hz, 2H), 2.30 (s, 6H).

Example 343: (5-(4,6-Dimethylpyrimidin-2-yl)hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl)(4-fluoro-2-(4-methylpyridin-2-yl)phenyl)methanone.

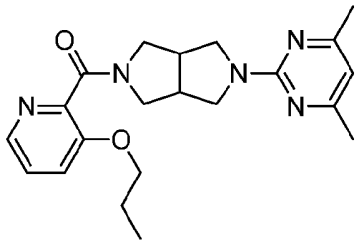
[1060]



[1061] The title compound was prepared in a manner analogous to Example 248 substituting 4-methyl-2-(tributylstannyl)pyridine for 5-methyl-2-(tributylstannyl)pyridine. MS (ESI) mass calcd. for $C_{25}H_{26}FN_5O$, 431.21; m/z found 432.2 $[M+H]^+$.

Example 344: (5-(4,6-dimethylpyrimidin-2-yl)hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl)(3-propoxypyridin-2-yl)methanone.

[1062]

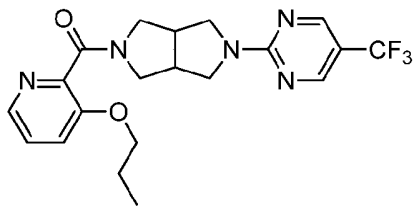


[1063] The title compound was prepared in a manner analogous to Example 15, utilizing Intermediate 23 and 2-propoxynicotinic acid. MS (ESI) mass calcd. $C_{21}H_{27}N_5O_2$, 381.48; m/z found 382.0 $[M+H]^+$. ^1H NMR (CD_3OD): 8.47 (d, J = 5.5 Hz, 1 H), 8.37 (d, J = 8.9 Hz, 1 H), 8.06 (dd, J = 8.9, 5.5 Hz, 1 H), 6.83 (s, 1 H), 4.36-4.24 (m, 2H), 4.10-3.97 (m, 3H), 3.81-3.67 (m, 4H), 3.50-3.44 (m, 1 H), 3.39-3.33 (m, 1 H), 3.30-3.22 (m, 1 H), 2.54 (s, 6H), 1.92-1.80 (m, 2H), 1.03 (t, J = 7.4 Hz, 3H).

[1064] The following prophetic example may be prepared using the procedures described in the previous examples.

Example 345: (3-Propoxypyridin-2-yl)(5-(5-(trifluoromethyl)pyrimidin-2-yl)hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl)methanone.

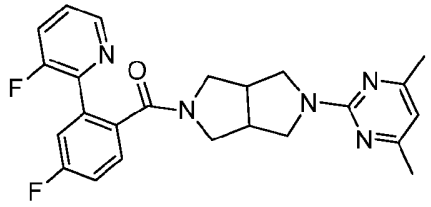
[1065]



[1066] MS (ESI) mass calcd. For $C_{20}H_{23}F_3N_5O_2$, 421.17.

Example 346: (5-(4,6-Dimethylpyrimidin-2-yl)hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl)(4-fluoro-2-(3-fluoropyridin-2-yl)phenyl)methanone.

[1067]

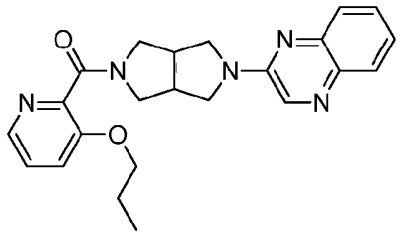


[1068] The title compound was prepared in a manner analogous to Example 248, substituting 3-fluoro-2-(tributylstarinyl)pyridine for 5-methyl-2-(tributylstannyl)pyridine. MS (ESI) mass calcd. for $C_{24}H_{23}F_2N_5O$, 435.19; found 436.2 $[M+H]^+$.

[1069] Prophetic examples 347- 348 may be prepared using the procedures described in the previous examples.

Example 347: (3-Propoxypyridin-2-yl)(5-(quinoxalin-2-yl)hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl)methanone.

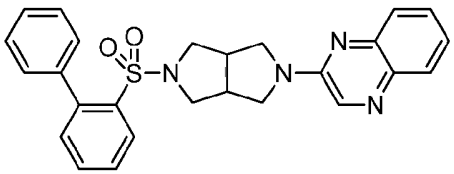
[1070]



[1071] MS (ESI) mass calcd. For $C_{23}H_{25}N_5O_2$, 403.20.

Example 348: 2-(5-([1,1'-biphenyl]-2-ylsulfonyl)hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl)quinoxaline.

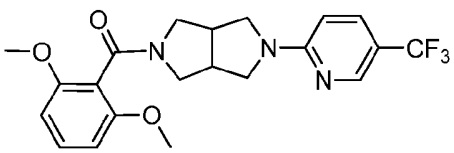
[1072]



[1073] The title prophetic compound may be synthesized using biphenylsulfonylchloride and Intermediate 35. MS (ESI) mass calcd. for $C_{26}H_{24}N_4O_2S$, 456.16.

Example 349: 2-[(2,6-Dimethoxyphenyl)carbonyl]-5-[5-(trifluoromethyl)pyridin-2-yl]octahydropyrrolo[3,4-c]pyrrole.

[1074]

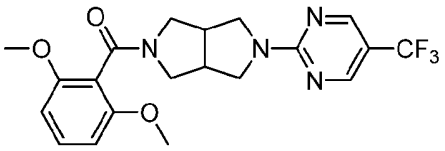


[1075] The title compound was prepared in a manner analogous to Example 15, utilizing 5-(trifluoromethyl)pyridin-2-yl]octahydropyrrolo[3,4-c]pyrrole and 2,6-dimethoxybenzoic acid. MS (ESI) mass calcd. $C_{21}H_{22}F_3N_3O_3$, 421.42; m/z

found 422.0 $[M+H]^+$ ^1H NMR (CD_3OD): 8.23 (s, 1 H), 8.12 (d, J = 8.9 Hz, 1 H), 7.34 (t, J = 8.4 Hz, 1 H), 7.27 (d, J = 9.2 Hz, 1 H), 6.72-6.66 (m, 2H), 4.03-3.48 (m, 14H), 3.28-3.22 (m, 2H).

Example 350: (2,6-Dimethoxyphenyl)(5-(5-(trifluoromethyl)pyrimidin-2-yl)hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl)methanone.

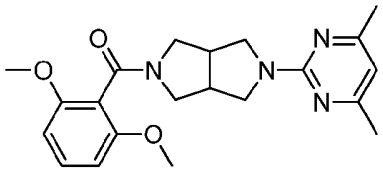
[1076]



[1077] The title prophetic compound may be synthesized in a manner analogous to Example 15 utilizing 5-(trifluoromethyl)pyrimidin-2-yl)hexahydropyrrolo[3,4-c]pyrrole and 2,6-dimethoxybenzoic acid. MS (ESI) mass calcd. For $C_{20}H_{21}F_3N_4O_3$, 422.16.

Example 351: (2,6-Dimethoxyphenyl)(5-(4,6-dimethylpyrimidin-2-yl)hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl)methanone.

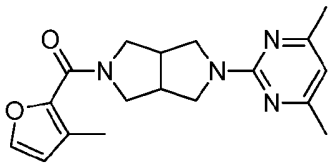
[1078]



[1079] The title compound was prepared in a manner analogous to Example 15 utilizing in a manner analogous to Example 15, utilizing Intermediate 23 and 2,6-dimethoxybenzoic acid. MS (ESI) mass calcd. $C_{21}H_{26}N_4O_3$, 382.47; m/z found 383.1 $[M+H]^+$. ^1H NMR (CD_3OD): 7.38 (t, J = 8.4 Hz, 1 H), 6.81 (s, 1 H), 6.81-6.70 (m, 2H), 4.04-3.89 (m, 3H), 3.84 (s, 3H), 3.79 (s, 3H), 3.76-3.55 (m, 4H), 3.27-3.13 (m, 3H), 2.53 (s, 6H).

Example 352: (5-(4,6-Dimethylpyrimidin-2-yl)hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl)(3-methylfuran-2-yl)methanone.

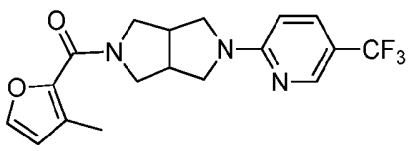
[1080]



[1081] The title compound was prepared in a manner analogous to Example 15, substituting 3-methylfuran-2-carboxylic acid for 3-fluoro-2-[1,2,3]triazol-2-yl-benzoic acid. MS (ESI) mass calcd. For $C_{18}H_{22}N_4O_2$, 326.17. m/z found 327.2 $[M+H]^+$.

Example 353: 2-[(3-Methylfuran-2-yl)carbonyl]-5-[5-(trifluoromethyl)pyridin-2-yl]octahydropyrrolo[3,4-c]pyrrole.

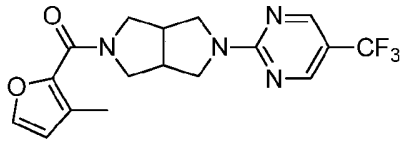
[1082]



[1083] The title compound was prepared in a manner analogous to Example 15, utilizing 2-(5-(trifluoromethyl)pyridin-2-yl)octahydropyrrolo[3,4-c]pyrrole and 3-methylfuran-2-carboxylic acid. MS (ESI) mass calcd. $C_{18}H_{18}F_3N_3O_2$, 365.36; m/z found 366.0 $[M+H]^+$. ^1H NMR ($CDCl_3$): 8.39 (s, 1 H), 7.62 (d, J = 9.1 Hz, 1 H), 7.32 (d, J = 1.4 Hz, 1 H), 6.39 (d, J = 8.8 Hz, 1 H), 6.32 (d, J = 1.4 Hz, 1 H), 4.17 (brs, 1H), 3.94 (brs, 1H), 3.81 (brs, 3H), 3.71-3.67 (m, 1 H), 3.50 (br s, 2H), 3.11 (brs, 2H), 2.37 (s, 3H).

Example 354: (3-Methylfuran-2-yl)(5-(5-(trifluoromethyl)pyrimidin-2-yl)hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl)methanone.

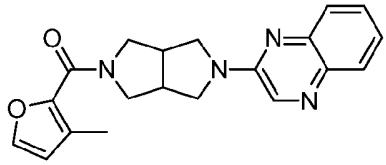
[1084]



[1085] The title prophetic compound may be prepared analogous to Example 15, utilizing 5-(trifluoromethyl)pyrimidin-2-yl)hexahydropyrrolo[3,4-c]pyrrole and 3-methylfuran-2-carboxylic acid. MS (ESI) mass calcd. For $C_{17}H_{17}F_3N_4O_2$, 366.13.

Example 355: (3-Methylfuran-2-yl)(5-(quinoxalin-2-yl)hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl)methanone.

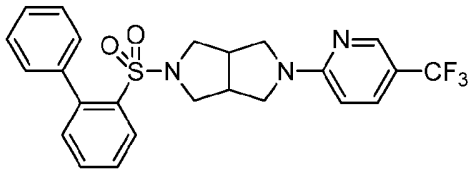
[1086]



[1087] The title compound was prepared in a manner analogous to Example 15 utilizing Intermediate 35 and 3-methylfuran-2-carboxylic acid. MS (ESI) mass calcd. For $C_{20}H_{20}N_4O_2$, 348.16; m/z found 349.0 $[M+H]^+$.

Example 356: 2-([1,1'-Biphenyl]-2-ylsulfonyl)-5-(5-(trifluoromethyl)pyridin-2-yl)octahydropyrrolo[3,4-c]pyrrole.

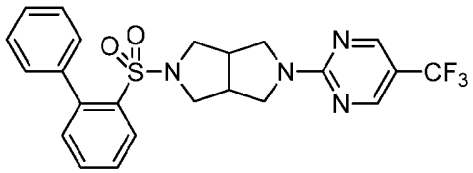
[1088]



[1089] The title compound may be prepared using biphenylsulfonylchloride and 5-(trifluoromethyl)pyridin-2-yl)octahydropyrrolo[3,4-c]pyrrole. MS (ESI) mass calcd. For $C_{24}H_{22}F_3N_3O_2S$, 473.14; m/z found 474.1 $[M+H]^+$.

Example 357: 2-([1,1'-Biphenyl]-2-ylsulfonyl)-5-(5-(trifluoromethyl)pyrimidin-2-yl)octahydropyrrolo[3,4-c]pyrrole.

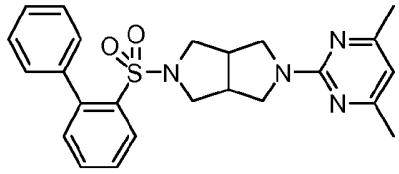
[1090]



[1091] The title prophetic compound may be prepared using biphenylsulfonylchloride and 5-(trifluoromethyl)pyrimidin-2-yl)octahydropyrrolo[3,4-c]pyrrole MS (ESI) mass calcd. For $C_{23}H_{21}F_3N_4O_2S$, 474.13.

Example 358: 2-([1,1'-Biphenyl]-2-ylsulfonyl)-5-(4,6-dimethylpyrimidin-2-yl)octahydropyrrolo[3,4-c]pyrrole.

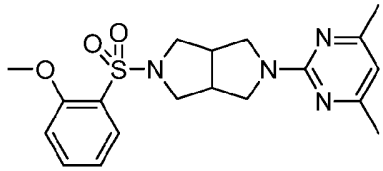
[1092]



[1093] The title compound was prepared using biphenylsulfonylchloride and 4,6-dimethylpyrimidin-2-yl)octahydropyrrolo[3,4-c]pyrrole. MS (ESI) mass calcd. For $C_{24}H_{26}N_4O_2S$, 434.18; m/z found 435.2 $[M+H]^+$.

Example 359: 2-(4,6-Dimethylpyrimidin-2-yl)-5-((2-methoxyphenyl)sulfonyl)octahydropyrrolo[3,4-c]pyrrole.

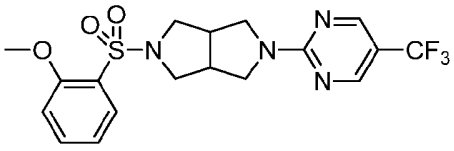
[1094]



[1095] The title compound was prepared using 2-methoxyphenyl)sulfonylchloride and Intermediate 23. MS (ESI) mass calcd. For $C_{19}H_{24}N_4O_3S$, 388.16; m/z found 389.2 $[M+H]^+$.

Example 360: 2-((2-Methoxyphenyl)sulfonyl)-5-(5-(trifluoromethyl)pyrimidin-2-yl)octahydropyrrolo[3,4-c]pyrrole.

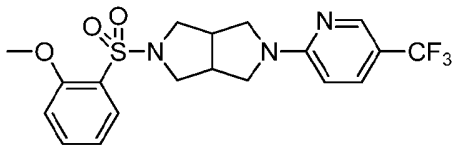
[1096]



[1097] The title prophetic compound may be prepared using 2-methoxyphenyl)sulfonylchloride and 5-(trifluoromethyl)pyrimidin-2-yl)octahydropyrrolo[3,4-c]pyrrole. MS (ESI) mass calcd. For $C_{18}H_{19}F_3N_4O_3S$, 428.11.

Example 361: 2-((2-Methoxyphenyl)sulfonyl)-5-(5-(trifluoromethyl)pyridin-2-yl)octahydropyrrolo[3,4-c]pyrrole.

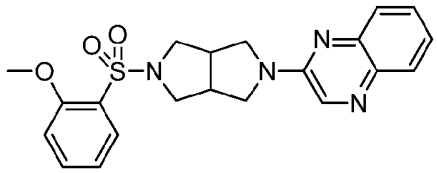
[1098]



[1099] The title compound was prepared using 2-methoxyphenyl)sulfonylchloride and 5-(trifluoromethyl)pyridin-2-yl)octahydropyrrolo[3,4-c]pyrrole. MS (ESI) mass calcd. For $C_{19}H_{20}F_3N_3O_3S$, 427.12; m/z found 428.2 $[M+H]^+$.

Example 362: 2-(5-((2-Methoxyphenyl)sulfonyl)hexahydropyrrolo[3,4-c]pyrrol-2(1 H)-yl)quinoxaline.

[1100]

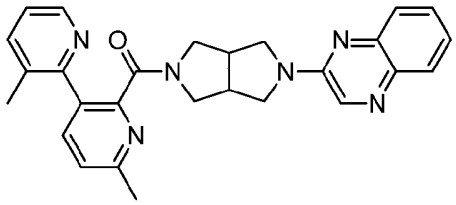


[1101] The title compound was prepared using 2-methoxyphenyl)sulfonylchloride and Intermediate 35. MS (ESI) mass calcd. For $C_{21}H_{22}N_4O_3S$, 410.14; m/z found 411.1 [M+H]+.

[1102] Prophetic Examples 363-365 may be prepared as previously described.

Example 363: (3,6'-Dimethyl-[2,3'-bipyridin]-2'-yl)(5-(quinoxalin-2-yl)hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl)methanone.

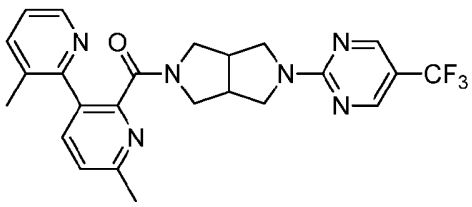
[1103]



[1104] MS (ESI) mass calcd. For $C_{27}H_{26}N_6O$, 450.22.

Example 364: (3,6'-Dimethyl-[2,3'-bipyridin]-2'-yl)(5-(5-(trifluoromethyl)pyrimidin-2-yl)hexahydropyrrolo[3,4-c]pyrrol-2(1 H)-yl)methanone.

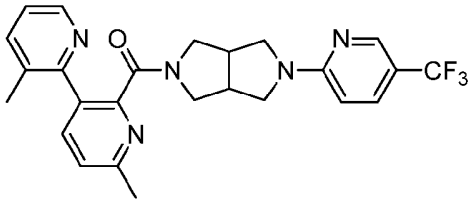
[1105]



[1106] MS (ESI) mass calcd. For $C_{27}H_{23}F_3N_6O$, 468.19.

Example 365: (3,6'-Dimethyl-[2,3'-bipyridin]-2'-yl)(5-(5-(trifluoromethyl)pyridin-2-yl)hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl)methanone.

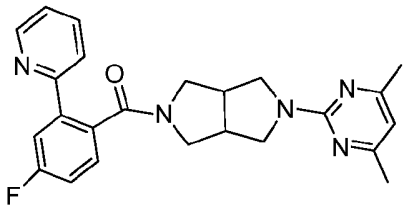
[1107]



[1108] MS (ESI) mass calcd. For $C_{25}H_{24}F_3N_5O$, 467.19.

Example 366: (5-(4,6-Dimethylpyrimidin-2-yl)hexahydropyrrolo[3,4-c]pyrrol-2(1 H)-yl)(4-fluoro-2-(pyridin-2-yl)phenyl)methanone.

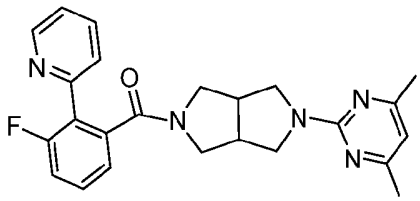
[1109]



[1110] The title compound was prepared in a manner analogous to Example 367 substituting (5-(4,6-dimethylpyrimidin-2-yl)hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl)(4-fluoro-2-iodophenyl)methanone for (5-(4,6-dimethylpyrimidin-2-yl)hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl)(3-fluoro-2-iodophenyl)methanone, with the addition of catalytic CuI, substituting dioxane for DME, heating 130 °C in microwave for 60 min. The reaction was filtered through celite, rinsed with EtOAc and then concentrated and purified on RP agilent HPLC and fractions lyophilized. MS (ESI) mass calcd. for $C_{24}H_{24}FN_5O$, 417.20; m/z found, 418.2 $[M+H]^+$.

Example 367: (5-(4,6-Dimethylpyrimidin-2-yl)hexahydropyrrolo[3,4-c]pyrrol-2(1 H)-yl)(3-fluoro-2-(pyridin-2-yl)phenyl)methanone.

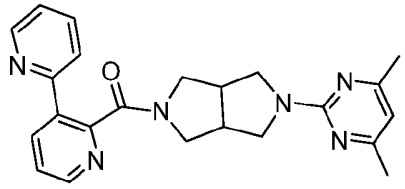
[1111]



[1112] (5-(4,6-Dimethylpyrimidin-2-yl)hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl)(3-fluoro-2-(pyridin-2-yl)phenyl)methanone. (5-(4,6-Dimethylpyrimidin-2-yl)hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl)(3-fluoro-2-iodophenyl)methanone (51 mg, 0.11 mmol) and 2-tributylstannane pyridine (57 mg, 0.13 mmol) were combined and dissolved in degassed DME then purged with bubbling N_2 for 5 minutes. The reaction was treated with $Pd(PPh_3)_4$ and then purged with bubbling for 5 minutes in a sealed vessel and then heated to 160 °C in microwave for 90 min. Reaction was filtered through celite, concentrated and purified on 16 g SiO_2 with 0-3.5 % NH_3 MeOH / CH_2Cl_2. MS (ESI) mass calcd. for $C_{24}H_{24}FN_5O$, 417.49; m/z found, 418.2 $[M+H]^+$. ^1H NMR (500 MHz, $CDCl_3$): 7.71 - 7.64 (m, 1 H), 7.57 - 7.52 (m, 1 H), 7.46 (dddd, J = 8.2, 5.6, 2.8, 1.2 Hz, 1 H), 7.37 (td, J = 7.9, 5.5 Hz, 1 H), 7.30 - 7.24 (m, 2H), 7.20 (ddd, J = 9.0, 2.5, 1.5 Hz, 1 H), 7.11 (tdd, J = 8.4, 2.6, 1.0 Hz, 1 H), 6.31 (s, 1 H), 3.97 (dd, J = 12.7, 7.8 Hz, 1 H), 3.89 (dd, J = 11.5, 7.7 Hz, 1 H), 3.82 - 3.70 (m, 2H), 3.70 - 3.60 (m, 2H), 3.50 (dd, J = 11.5, 4.6 Hz, 1 H), 3.40 (dd, J = 10.9, 5.4 Hz, 1 H), 3.07 (d, J = 7.2 Hz, 1 H), 3.03 - 2.94 (m, 1 H), 2.30 (s, 6H).

Example 368: [2,3'-bipyridin]-2'-yl(5-(4,6-dimethylpyrimidin-2-yl)hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl)methanone.

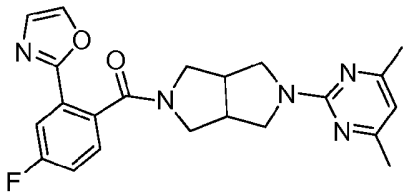
[1113]



[1114] The title prophetic example may be synthesized according to a procedure as previously described. MS (ESI) mass calcd. for $C_{23}H_{24}N_6O$, 400.48

Example 369: (5-(4,6-Dimethylpyrimidin-2-yl)hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl)(4-fluoro-2-(oxazol-2-yl)phenyl)methanone.

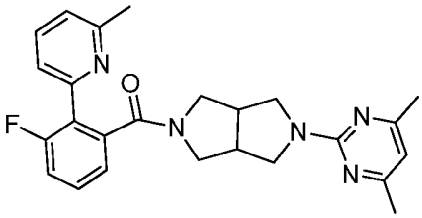
[1115]



[1116] The title compound was prepared in a manner analogous to Example 248, substituting 2-(tri-N-butylstannyl)oxazole for 2-tributylstannane pyrimidine. MS (ESI) mass calcd. for $C_{22}H_{22}FN_5O_2$, 407.18; found 408.2 $[M+H]^+$.

Example 370: (5-(4,6-Dimethylpyrimidin-2-yl)hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl)(3-fluoro-2-(6-methylpyridin-2-yl)phenyl)methanone.

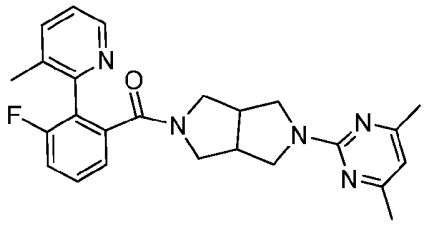
[1117]



[1118] The title compound was prepared in a manner analogous to Example 367, substituting 6-methyl-2-(tributylstannyl)pyridine for 2-tributylstannane pyridine. MS (ESI) mass calcd. for $C_{25}H_{26}FN_5O$ 431.51; m/z found, 432.2 $[M+H]^+$. ^1H NMR (500 MHz, $CDCl_3$): 7.60 (t, J = 7.7 Hz, 1 H), 7.43 - 7.35 (m, 2H), 7.21 - 7.15 (m, J = 13.8, 4.5 Hz, 2H), 7.05 (d, J = 7.7 Hz, 1H),6.30(s, 1H), 3.84-3.73 (m, J = 20.1, 12.0, 7.6 Hz, 2H), 3.67 (dd, J = 11.5, 7.0 Hz, 1 H), 3.63 - 3.53 (m, 1H), 3.40 (t, J = 13.3 Hz, 2H), 3.30-3.20 (m, 1H), 3.10 (dd, J = 10.8, 5.7 Hz, 1 H), 2.98 - 2.84 (m, 2H), 2.43 (s, 3H), 2.30 (s, 6H).

Example 371: (5-(4,6-Dimethylpyrimidin-2-yl)hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl)(3-fluoro-2-(3-methylpyridin-2-yl)phenyl)methanone.

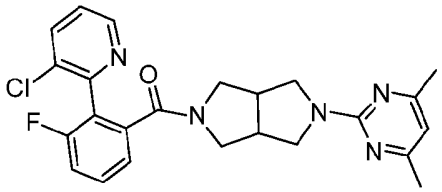
[1119]



[1120] The title compound was prepared in a manner analogous to Example 367. MS (ESI) mass calcd. for $C_{25}H_{26}FN_5O$, 431.51; m/z found, 432.2 $[M+H]^+$. ^1H NMR (500 MHz, $CDCl_3$): 8.37 (d, J = 40.0 Hz, 1 H), 7.56 - 7.49 (m, 1 H), 7.41 (td, J = 7.9, 5.3 Hz, 1 H), 7.23 - 7.04 (m, J = 19.5, 9.7 Hz, 3H), 6.30 (s, 1 H), 3.96 - 3.45 (m, 6H), 3.46 - 3.19 (m, J = 11.6, 7.6 Hz, 2H), 3.01 - 2.85 (m, 2H), 2.31 (s, 6H), 2.23 (s, 3H).

Example 372: (2-(3-Chloropyridin-2-yl)-3-fluorophenyl)(5-(4,6-dimethylpyrimidin-2-yl)hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl)methanone.

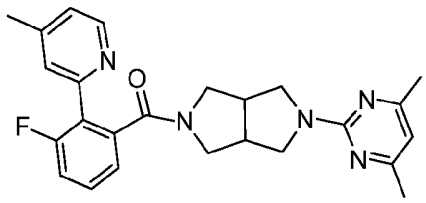
[1121]



[1122] The title compound was prepared in a manner analogous to Example 367. MS (ESI) mass calcd. for $C_{24}H_{23}ClFN_5O$, 451.93; m/z found, 452.1 $[M+H]^+$. ^1H NMR (400 MHz, $CDCl_3$): 8.51 (d, J = 3.7 Hz, 1 H), 7.71 (dd, J = 28.1, 8.0 Hz, 1H), 7.45 (td, J = 7.9, 5.3 Hz, 1 H), 7.25 - 7.14 (m, J = 10.6, 7.7 Hz, 3H), 6.30 (s, 1H), 3.77 (s, 2H), 3.72 - 3.59 (m, J = 23.3, 9.8 Hz, 2H), 3.59 - 3.53 (m, 1 H), 3.45 (dd, J = 33.2, 12.0 Hz, 2H), 3.37 - 3.11 (m, J = 59.6 Hz, 1 H), 3.02 - 2.88 (m, 2H), 2.31 (s, 6H).

Example 373: (5-(4,6-Dimethylpyrimidin-2-yl)hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl)(3-fluoro-2-(4-methylpyridin-2-yl)phenyl)methanone.

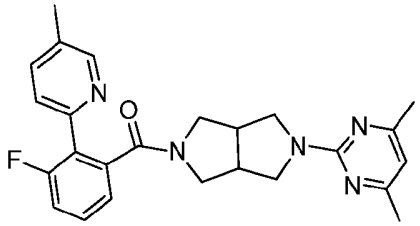
[1123]



[1124] The title compound was prepared in a manner analogous to Example 367. MS (ESI) mass calcd. for $C_{25}H_{26}FN_5O$, 431.51; m/z found, 432.2 $[M+H]^+$. ^1H NMR (400 MHz, $CDCl_3$): 8.44 (d, J = 5.0 Hz, 1 H), 7.43 - 7.40 (m, 1 H), 7.40 - 7.34 (m, 1 H), 7.21 - 7.14 (m, J = 2.7, 1.1 Hz, 2H), 6.99 (d, J = 4.5 Hz, 1 H), 6.29 (s, 1H), 3.79 (dd, J = 11.5, 7.3 Hz, 1 H), 3.69 (ddd, J = 8.7, 7.1, 2.1 Hz, 2H), 3.58-3.50 (m, 2H), 3.46 (dd, J = 12.6, 4.3 Hz, 1H), 3.40 (dd, J = 10.9, 4.2 Hz, 1H), 3.25 (dd, J = 11.0, 5.1 Hz, 1 H), 2.99 - 2.85 (m, 2H), 2.34 (s, 3H), 2.31 (s, 6H).

Example 374: (5-(4,6-Dimethylpyrimidin-2-yl)hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl)(3-fluoro-2-(5-methylpyridin-2-yl)phenyl)methanone.

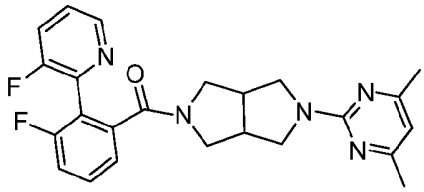
[1125]



[1126] The title compound was prepared in a manner analogous to Example 367. MS (ESI) mass calcd. for $C_{25}H_{26}FN_5O$, 431.51; m/z found, 432.2 $[M+H]^+$. ^1H NMR (400 MHz, $CDCl_3$): 8.42 (s, 1 H), 7.53 - 7.48 (m, 2H), 7.42 - 7.33 (m, 1 H), 7.21 - 7.12 (m, 2H), 6.29 (s, 1 H), 3.81 (dd, J = 11.5, 7.3 Hz, 1 H), 3.76 - 3.67 (m, J = 11.3, 7.2, 4.3 Hz, 2H), 3.58 - 3.39 (m, 4H), 3.28 (dd, J = 10.9, 4.8 Hz, 1 H), 3.01 - 2.86 (m, 2H), 2.31 (s, 9H).

Example 375: (5-(4,6-Dimethylpyrimidin-2-yl)hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl)(3-fluoro-2-(3-fluoropyridin-2-yl)phenyl)methanone.

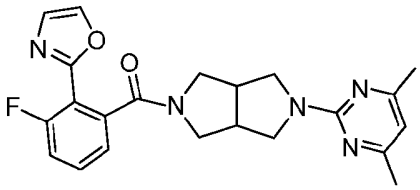
[1127]



[1128] The title compound was prepared in a manner analogous to Example 367 substituting 3-fluoro-2-(tributylstannyl)pyridine for 2-tributylstannane pyridine. MS (ESI) mass calcd. for $C_{24}H_{23}F_2N_5O$, 435.48; m/z found, 436.2 $[M+H]^+$. ^1H NMR (400 MHz, $CDCl_3$): 8.45 (dt, J = 4.6, 1.5 Hz, 1H), 7.49 - 7.39 (m, 2H), 7.29 - 7.16 (m, 3H), 6.30 (s, 1 H), 3.85 - 3.60 (m, 5H), 3.53 - 3.42 (m, 2H), 3.38 (dd, J = 10.9, 4.4 Hz, 1 H), 3.03 - 2.91 (m, 2H), 2.31 (s, 6H).

Example 376: (5-(4,6-Dimethylpyrimidin-2-yl)hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl)(3-fluoro-2-(oxazol-2-yl)phenyl)methanone.

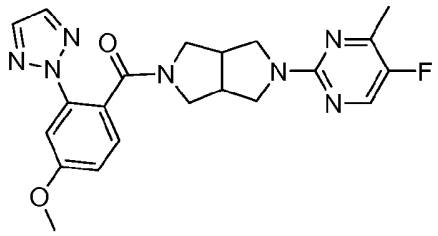
[1129]



[1130] The title compound was prepared in a manner analogous to Example 367 substituting 2-(tri-N-butylstannyl)oxazole for 2-tributylstannane pyridine. MS (ESI) mass calcd. for $C_{22}H_{22}FN_5O_2$, 407.45; m/z found, 408.2 $[M+H]^+$. ^1H NMR (500 MHz, $CDCl_3$): 7.73 (d, J = 0.6 Hz, 1 H), 7.51 - 7.44 (m, 1 H), 7.25 - 7.20 (m, 2H), 7.18 (dd, J = 7.6, 0.9 Hz, 1 H), 6.29 (s, 1 H), 3.90 - 3.83 (m, 2H), 3.74-3.60 (m, 3H), 3.52 (dd, J = 11.6, 4.4 Hz, 1 H), 3.45 (dd, J = 10.9, 7.5 Hz, 1 H), 3.11 (dd, J = 10.9, 5.4 Hz, 1 H), 3.08 - 3.00 (m, 1 H), 3.00 - 2.93 (m, 1H), 2.30 (s, 6H).

Example 377: 2-(5-Fluoro-4-methylpyrimidin-2-yl)-5-{[4-methoxy-2-(2H-1,2,3-triazol-2-yl)phenyl]carbonyl}octahydropyrrolo[3,4-c]pyrrole.

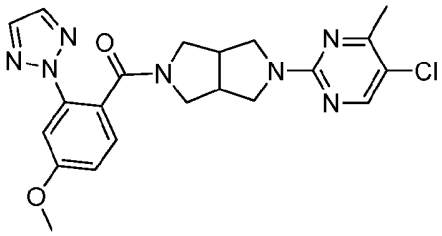
[1131]



[1132] (Hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl)(4-methoxy-2-(2H-1,2,3-triazol-2-yl)phenyl)methanone (Example 288 - step B, 33 mg, 0.10 mmol), 2-chloro-5-fluoro-4-methylpyrimidine (Intermediate 55, 15 mg, 0.10 mmol) and DIPEA (54 μL, 0.3 mmol) in ACN (1 mL) were heated in a microwave reactor for 2h at 200 °C. Then the reaction mixture was concentrated and purified via prep HPLC (Agilent, basic) gave the title compound as a clear oil. MS (ESI) mass calcd. $C_{21}H_{22}FN_7O_2$, 423.45; m/z found 424.2 $[M+H]^+$. ^1H NMR ($CDCl_3$): 8.06 (d, *J* = 1.8 Hz, 1 H), 7.74 (s, 2H), 7.50 (d, *J* = 5.8 Hz, 1 H), 7.33 (d, *J* = 8.5 Hz, 1 H), 6.95 (dd, *J* = 8.5, 2.5 Hz, 1 H), 3.93 - 3.76 (m, 5H), 3.71 - 3.59 (m, 2H), 3.53 (dd, *J* = 11.4, 5.2 Hz, 1 H), 3.44 - 3.30 (m, 2H), 3.07 - 2.87 (m, 3H), 2.37 (t, *J* = 4.9 Hz, 3H).

Example 378: 2-(5-Chloro-4-methylpyrimidin-2-yl)-5-{[4-methoxy-2-(2H-1,2,3-triazol-2-yl)phenyl]carbonyl}octahydropyrrolo[3,4-c]pyrrole.

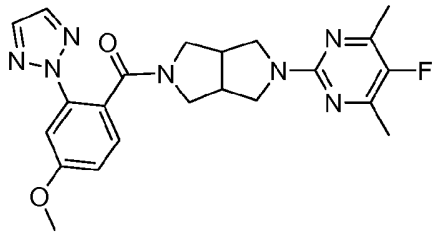
[1133]



[1134] The title compound was prepared in a manner analogous to Example 377, utilizing 2,5-dichloro-4-methylpyrimidine (Intermediate 65) in place of 2-chloro-5-fluoro-4-methylpyrimidine. MS (ESI) mass calcd. $C_{21}H_{22}ClN_7O_2$, 439.91; m/z found 440.2 $[M+H]^+$ ^1H NMR ($CDCl_3$): 8.13 (s, 1H), 7.74 (s, 2H), 7.51 (d, *J* = 10.9 Hz, 1 H), 7.32 (d, *J* = 6.8 Hz, 1 H), 6.94 (dd, *J* = 20.6, 10.3 Hz, 1 H), 3.93-3.78 (m, 5H), 3.73 - 3.60 (m, 2H), 3.59 - 3.50 (m, 1 H), 3.47 - 3.30 (m, 2H), 3.08 - 2.87 (m, 3H), 2.44 (s, *J* = 11.6 Hz, 3H).

Example 379: 2-(5-Fluoro-4,6-dimethylpyrimidin-2-yl)-5-{[4-methoxy-2-(2H-1,2,3-triazol-2-yl)phenyl]carbonyl}octahydropyrrolo[3,4-c]pyrrole.

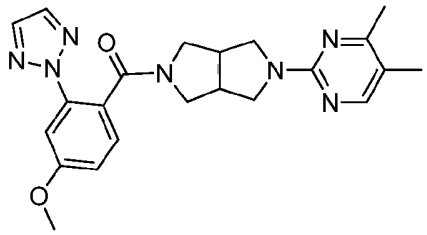
[1135]



[1136] The title compound was prepared in a manner analogous to Example 377, utilizing 2-chloro-5-fluoro-4,6-dimethylpyrimidine (Intermediate 69) in place of 2-chloro-5-fluoro-4-methylpyrimidine. MS (ESI) mass calcd. $C_{22}H_{24}FN_7O_2$, 437.48; m/z found 438.2 $[M+H]^+$. ^1H NMR ($CDCl_3$): 7.74 (s, 2H), 7.50 (d, *J* = 2.5 Hz, 1 H), 7.35 - 7.30 (m, 1 H), 6.95 (dd, *J* = 8.5, 2.5 Hz, 1 H), 3.92 - 3.75 (m, 5H), 3.70 - 3.58 (m, 2H), 3.53 (dd, *J* = 11.5, 5.2 Hz, 1 H), 3.43 - 3.29 (m, 2H), 3.04 - 2.84 (m, 3H), 2.32 (d, *J* = 6.7 Hz, 6H).

Example 380: 2-(4,5-Dimethylpyrimidin-2-yl)-5-{[4-methoxy-2-(2H-1,2,3-triazol-2-yl)phenyl]carbonyl}octahydropyrrolo[3,4-c]pyrrole.

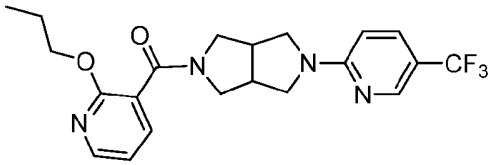
[1137]



[1138] The title compound was prepared in a manner analogous to Example 377, utilizing 2-chloro-4,5-dimethylpyrimidine (Intermediate 57) in place of 2-chloro-5-fluoro-4-methylpyrimidine. MS (ESI) mass calcd. $C_{22}H_{25}N_7O_2$, 419.49; m/z found 420.1 $[M+H]^+$. ^1H NMR ($CDCl_3$): 7.99 (s, 1 H), 7.74 (s, 2H), 7.49 (d, *J* = 7.3 Hz, 1 H), 7.32 (d, *J* = 8.2 Hz, 1 H), 6.94 (dd, *J* = 8.5, 2.5 Hz, 1 H), 3.92 - 3.78 (m, 5H), 3.72 - 3.61 (m, 2H), 3.54 (dd, *J* = 11.4, 5.2 Hz, 1 H), 3.42 (dd, *J* = 11.4, 4.2 Hz, 1 H), 3.34 (s, 1 H), 3.07 - 2.85 (m, 3H), 2.32 (s, 3H), 2.09 (s, 3H).

Example 381: 2-[(3-Propoxypyridin-2-yl)carbonyl]-5-[5-(trifluoromethyl)pyridin-2-yl]octahydropyrrolo[3,4-c]pyrrole.

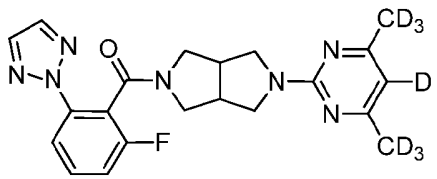
[1139]



[1140] The title compound was prepared in a manner analogous to Example 15, utilizing 5-(trifluoromethyl)pyridin-2-yl]octahydropyrrolo[3,4-c]pyrrole and 2-propoxynicotinic acid. MS (ESI) mass calcd. $C_{21}H_{23}F_3N_4O_2$, 420.40; m/z found 421.1 $[M+H]^+$ ^1H NMR (CD_3OD): 8.31 (s, 2H), 8.19 (dd, J = 9.6, 2.3 Hz, 1 H), 8.02 (s, 1 H), 7.80 (s, 1 H), 7.26 (d, J = 9.4 Hz, 1 H), 4.22-4.17 (m, 2H), 4.07-3.93 (m, 3H), 3.79-3.60 (m, 4H), 3.44-3.35 (m, 3H), 1.88-1.77 (m, 2H), 1.02 (t, J = 7.4 Hz, 3H).

Example 382: 2-{4,6-Bis[($^2H_3$)methyl](^2H)pyrimidin-2-yl}-5-{[2-fluoro-6-(2H-1,2,3-triazol-2-yl)phenyl]carbonyl}octahydropyrrolo[3,4-c]pyrrole.

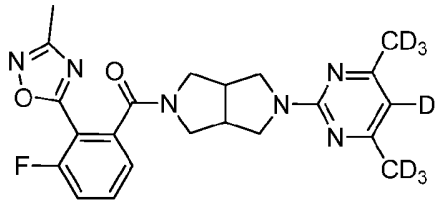
[1141]



[1142] To a solution of Intermediate 91 (150 mg, 0.26 mmol) in DCM (2.6 mL) was added Intermediate 12 (55 mg, 0.26 mmol) followed by EDCI (76 mg, 0.4 mmol), HOBt (54 mg, 0.4 mmol) and TEA (0.15 mL, 1.06 mmol). The mixture was stirred for 14 h at room temperature and an additional amount of EDCI (76 mg, 0.4 mmol) and TEA (0.15 mL, 1.06 mmol) were added. After an additional 24 h at room temperature the mixture was concentrated *in vacuo* and chromatography (Hex to 100% EtOAc/Hex) afforded the desired product as a colorless foam (63 mg, 58%). MS (ESI): mass calculated for $C_{21}H_{15}D_7FN_7O$, 414.23; m/z found 415.2 $[M+1]^+$. 1H NMR (500 MHz, $CDCl_3$): 7.87 - 7.80 (m, 2H), 7.71 (s, 1H), 7.51 - 7.44 (m, 1 H), 7.18 - 7.10 (m, 1 H), 4.01 - 3.50 (m, 7H), 3.32 - 3.21 (m, 1 H), 3.12 - 2.94 (m, 2H).

Example 383: 2-{4,6-Bis[($^2H_3$)methyl](^2H)pyrimidin-2-yl}-5-{[3-fluoro-2-(3-methyl-1,2,4-oxadiazol-5-yl)phenyl]carbonyl}octahydropyrrolo[3,4-c]pyrrole.

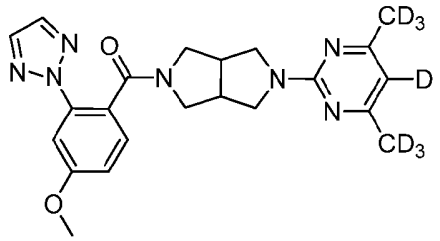
[1143]



[1144] The title compound was prepared in a manner analogous to Example 382 substituting Intermediate 63 for Intermediate 12. MS (ESI): mass calculated for $C_{22}H_{16}D_7FN_6O_2$, 429.23; m/z found 430.2 $[M+1]^+$. 1H NMR (500 MHz, $CDCl_3$): 7.63 - 7.57 (m, 1 H), 7.31 - 7.27 (m, 1 H), 7.24 - 7.21 (m, 1 H), 3.94 - 3.87 (m, 2H), 3.78 - 3.62 (m, 3H), 3.58 - 3.48 (m, 2H), 3.22 - 3.15 (m, 1 H), 3.12 - 2.96 (m, 2H), 2.43 (s, 3H).

Example 384: 2-{4,6-Bis[($^2H_3$)methyl](^2H)pyrimidin-2-yl}-5-{[4-methoxy-2-(2H-1,2,3-triazol-2-yl)phenyl]carbonyl}octahydropyrrolo[3,4-c]pyrrole.

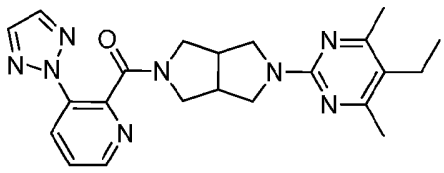
[1145]



[1146] The title compound was prepared in a manner analogous to Example 382 substituting Intermediate 54 for Intermediate 12. MS (ESI): mass calculated for $C_{22}H_{18}D_7N_7O_2$, 426.25; m/z found 427.3 $[M+1]^+$. 1 H NMR (500 MHz, $CDCl_3$): 7.73 (s, 2H), 7.50 (d, J = 2.5 Hz, 1 H), 7.33 (d, J = 8.5 Hz, 1 H), 6.95 (dd, J = 8.5 Hz, 2.5 Hz, 1 H), 3.94 - 3.80 (m, 5H), 3.71 - 3.63 (m, 2H), 3.61 - 3.55 (m, 1 H), 3.49 - 3.43 (m, 1 H), 3.38 - 3.29 (m, 1 H), 3.05 - 2.86 (m, 3H).

Example 385: 2-(5-Ethyl-4,6-dimethylpyrimidin-2-yl)-5-{[3-(2H-1,2,3-triazol-2-yl)pyridin-2-yl]carbonyl}octahydropyrrolo[3,4-c]pyrrole.

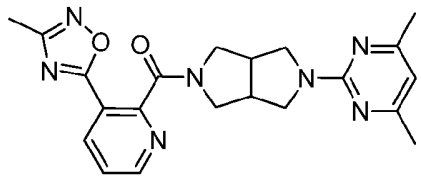
[1147]



[1148] The title compound was prepared in a manner analogous to Example 290 substituting Intermediate 68 for Intermediate 20 and Intermediate 67 for Intermediate 55. MS (ESI) mass calculated for $C_{22}H_{26}N_8O$, 418.22; m/z found, 419.2. 1 H NMR (500 MHz, $CDCl_3$): 8.62 (dd, J = 4.7 Hz, 1.3 Hz, 1 H), 8.33 (dd, J = 8.3 Hz, 1.4 Hz, 1 H), 7.79 (s, 2H), 7.48 (dd, J = 8.3 Hz, 4.7 Hz, 1 H), 3.97 - 3.84 (m, 2H), 3.78 - 3.63 (m, 4H), 3.59 - 3.55 (m, 1 H), 3.29 - 3.23 (m, 1 H), 3.13 - 2.98 (m, 2H), 2.52 (q, J = 7.5 Hz, 2H), 2.38 (s, 6H), 1.08 (t, J = 7.5 Hz, 3H).

Example 386: 2-(4,6-Dimethylpyrimidin-2-yl)-5-{[3-(3-methyl-1,2,4-oxadiazol-5-yl)pyridin-2-yl]carbonyl}octahydropyrrolo[3,4-c]pyrrole.

[1149]



[1150] Step A: 2-(Methoxycarbonyl)nicotinic acid. 2,3-Pyridinecarboxylic anhydride (2.32 g, 15.55 mmol) was dissolved in MeOH (11 mL) and heated to reflux for 14 h. The mixture was concentrated *in vacuo* to a white solid that was a mixture of 2-(methoxycarbonyl)nicotinic acid and 3-(methoxycarbonyl)picolinic acid. This mixture was used as is. MS (ESI) mass calculated for $C_8H_7NO_4$, 181.04; m/z found, 181.9.

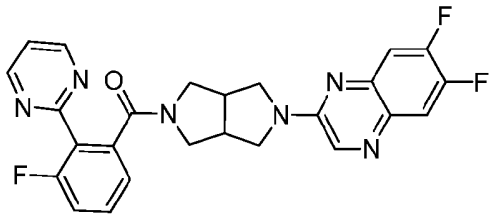
[1151] Step B: (E)-Methyl 3-((((1-aminoethylidene)amino)oxy)carbonyl)picolinate. To the product of Step A (250 mg, 1.38 mmol) in THF (7 mL) at 0 °C was added ethyl chloroformate (0.17 mL, 1.38 mmol) followed by TEA (0.29 mL, 2.07 mmol). After 10 min the ice bath was removed and after 2 h N-hydroxyacetamidine (102 mg, 1.38 mmol) was added in one portion. After 14 h at room temperature the mixture was concentrated in vacuo and chromatography (Hex to 100% EtOAc/Hex) afforded the desired (E)-methyl 3-((((1-aminoethylidene)amino)oxy)carbonyl)picolinate (200 mg, 70%) and (E)-methyl 2-((((1-aminoethylidene)amino)oxy)carbonyl)nicotinate (60 mg, 18%). MS (ESI) mass calculated for $C_{10}H_{11}N_3O_4$, 237.08; m/z found, 238.1. 1H NMR (500 MHz, $CDCl_3$): 8.79 (dd, J = 4.8 Hz, 1.6 Hz, 1 H), 8.28 (dd, J = 7.9 Hz, 1.6 Hz, 1 H), 7.58 - 7.51 (m, 1 H), 3.99 (s, 3H), 2.04 (s, 3H).

[1152] Step C: 3-(3-Methyl-1,2,4-oxadiazol-5-yl)picolinic acid. To the product of Step B (180 mg, 0.76 mmol) was added t-BuOH (4 mL) followed by NaOAc (94 mg, 1.14 mmol) and the mixture was heated at 100 °C for 14 h. The mixture was allowed to cool to room temperature and filtered to afford 3-(3-methyl-1,2,4-oxadiazol-5-yl)picolinic acid (60 mg, 39%) as a white solid.

[1153] Step D: 2-(4,6-Dimethylpyrimidin-2-yl)-5-{[3-(3-methyl-1,2,4-oxadiazol-5-yl)pyridin-2-yl]carbonyl}octahydropyrrolo[3,4-c]pyrrole. To a solution of the product of Step C (60 mg, 0.30 mmol) in DCM (3 mL) was added Intermediate 23 (65 mg, 0.30 mmol) followed by EDCI (85mg, 0.44 mmol), HOBt (60 mg, 0.44 mmol) and TEA (0.08 mL, 0.59 mmol). The mixture was stirred at room temperature for 14 h and then concentrated *in vacuo.* Chromatography (DCM to 8% 2 M NH_3 in MeOH/DCM) afforded the desired compound as a colorless foam (49 mg, 41%). MS (ESI) mass calculated for $C_{21}H_{23}N_7O_2$, 405.19; m/z found, 406.2. 1 H NMR (500 MHz, $CDCl_3$): 8.82 - 8.75 (m, 1 H), 8.42 - 8.36 (m, 1 H), 7.52 - 7.47 (m, 1 H), 6.31 - 6.26 (m, 1 H), 4.02 - 3.90 (m, 2H), 3.86 - 3.79 (m, 1 H), 3.76 - 3.69 (m, 2H), 3.66 - 3.54 (m, 2H), 3.24 - 3.18 (m, 1 H), 3.14 - 2.99 (m, 2H), 2.48 - 2.42 (m, 3H), 2.33 - 2.24 (m, 6H).

Example 387: (5-(6,7-Difluoroquinoxalin-2-yl)hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl)(3-fluoro-2-(pyrimidin-2-yl)phenyl)methanone.

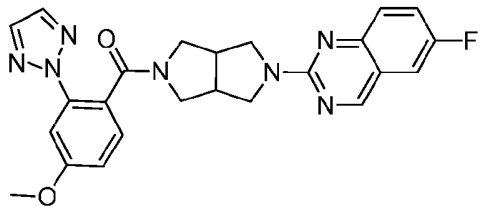
[1154]



[1155] The title compound was prepared in a manner analogous to Example 15, utilizing Intermediate 44 and Intermediate 50 in the last step MS (ESI): mass calculated for $C_{25}H_{19}F_3N_6O$, 476.16; m/z found 477.2 $[M+H]^+$. ^1H NMR (500 MHz, $CDCl_3$) 8.74 (t, J = 12.5, 2H), 8.25 (d, J = 20.5, 1 H), 7.65 (dd, J = 10.5, 8.4, 1 H), 7.52 - 7.40 (m, 2H), 7.26 - 7.12 (m, 3H), 3.97 - 3.74 (m, 3H), 3.73-3.52 (m, 4H), 3.38 (dd, J = 11.1, 4.6, 1 H), 3.22 - 3.02 (m, 2H).

Example 388: (5-(6,7-Difluoroquinoxalin-2-yl)hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl)(3-fluoro-2-(pyrimidin-2-yl)phenyl)methanone.

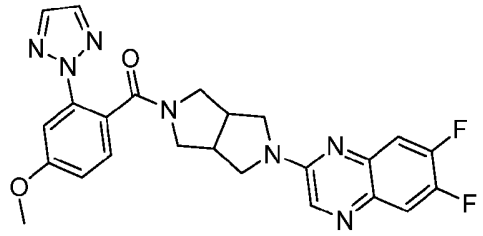
[1156]



[1157] The title compound was prepared in a manner analogous to Example 15, utilizing Intermediate 43 and Intermediate 54 in the last step MS (ESI): mass calculated for $C_{24}H_{22}FN_7O_2$, 459.18; m/z found 460.2 $[M+H]^+$. ^1H NMR (500 MHz, $CDCl_3$) 8.97 (s, 1 H), 7.71 (s, 2H), 7.59 (dd, J = 9.0, 4.7, 1 H), 7.47 (ddd, J = 17.7, 9.5, 2.6, 2H), 7.37 - 7.28 (m, 2H), 6.95 (dd, J = 8.5, 2.5, 1H), 4.01 - 3.85 (m, 5H), 3.74 (ddt, J = 17.0, 11.6, 8.8, 3H), 3.64 - 3.33 (m, 2H), 3.12-2.93 (m, 3H).

Example 389: (5-(6,7-Difluoroquinoxalin-2-yl)hexahydropyrrolo[3,4-c]pyrrol-2(1 H)-yl)(4-methoxy-2-(2H-1,2,3-triazol-2-yl)phenyl)methanone.

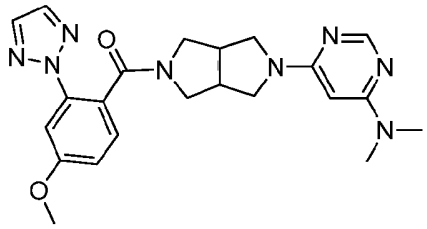
[1158]



[1159] The title compound was prepared in a manner analogous to Example 15, utilizing Intermediate 44 and Intermediate 54 in the last step MS (ESI): mass calculated for $C_{24}H_{21}F_2N_7O_2$, 477.17; m/z found 478.1 $[M+H]^+$. ^1H NMR (500 MHz, $CDCl_3$) 8.26 (d, J = 14.7, 1H), 7.71 (s, 2H), 7.63 (dd, J = 10.6, 8.5, 1 H), 7.49 (t, J = 7.1, 1 H), 7.41 (dd, J = 11.4, 8.0, 1 H), 7.33 (t, J = 6.7, 1 H), 6.95 (dt, J = 8.4, 4.2, 1 H), 3.99 - 3.85 (m, 5H), 3.83 - 3.69 (m, 2H), 3.70 - 3.57 (m, 1 H), 3.52 (dd, J = 11.0, 3.5, 1H), 3.44 (s, 1 H), 3.19 - 3.09 (m, 1 H), 3.09 - 2.97 (m, 2H).

Example 390: (5-(6-(Dimethylamino)pyrimidin-4-yl)hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl)(4-methoxy-2-(2H-1,2,3-triazol-2-yl)phenyl)methanone.

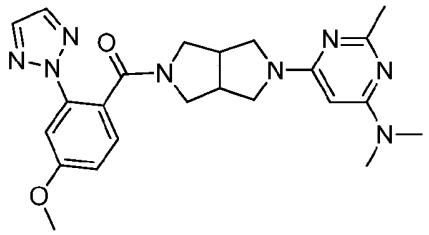
[1160]



[1161] The title compound was prepared utilizing (hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl)(4-methoxy-2-(2H-1,2,3-triazol-2-yl)phenyl)methanone (Example 288, product from Step B) and 6-chloro-N,N-dimethylpyrimidin-4-amine. MS (ESI) mass calcd. $C_{22}H_{26}N_8O_2$, 434.49; m/z found 435.2 $[M+H]^+$.

Example 391: (5-(6-(Dimethylamino)-2-methylpyrimidin-4-yl)hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl)(4-methoxy-2-(2H-1,2,3-triazol-2-yl)phenyl)methanone.

[1162]

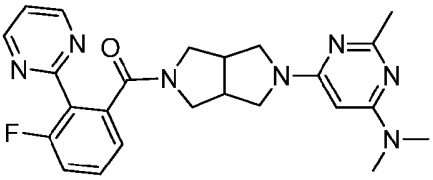


[1163] The title compound was prepared utilizing (hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl)(4-methoxy-2-(2H-1,2,3-triazol-2-yl)phenyl)methanone (Example 288, product from Step B) and 6-chloro-N,N,2-trimethylpyrimidin-4-amine. MS (ESI) mass calcd. $C_{23}H_{28}N_8O_2$, 448.52; m/z found 449.2 $[M+H]^+$.

[1164] Prophetic examples 392-398 may be made using the procedures described previously.

Example 392: (5-(6-(Dimethylamino)-2-methylpyrimidin-4-yl)hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl)(3-fluoro-2-(pyrimidin-2-yl)phenyl)methanone.

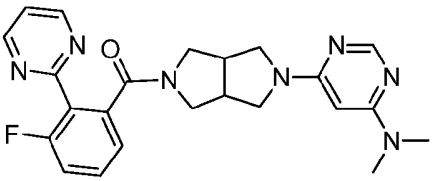
[1165]



[1166] The title prophetic compound may be synthesized utilizing 6-chloro-N,N,2-trimethylpyrimidin-4-amine and MS (ESI) mass calcd. $C_{24}H_{26}FN_7O$, 447.51

Example 393: (5-(6-(Dimethylamino)pyrimidin-4-yl)hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl)(3-fluoro-2-(pyrimidin-2-yl)phenyl)methanone.

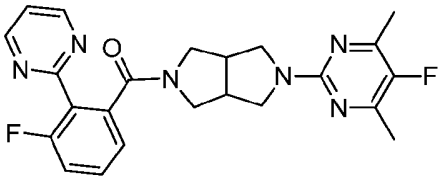
[1167]



[1168] The title prophetic compound may be synthesized utilizing 3-fluoro-2-(pyrimidin-2-yl)benzoic acid and 6-chloro-N,N-dimethylpyrimidin-4-amine. MS (ESI) mass calcd. $C_{23}H_{24}FN_7O$, 433.48

Example 394: (3-Fluoro-2-(pyrimidin-2-yl)phenyl)(5-(5-fluoro-4,6-dimethylpyrimidin-2-yl)hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl)methanone.

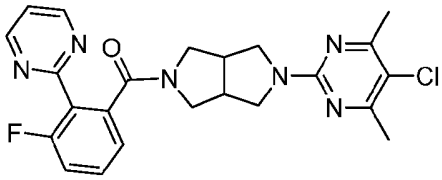
[1169]



[1170] The title prophetic compound may be synthesized utilizing 3-fluoro-2-(pyrimidin-2-yl)benzoic acid and 2-chloro-5-fluoro-4,6-dimethylpyrimidine. MS (ESI) mass calcd. $C_{23}H_{22}F_2N_6O$, 436.46

Example 395: (5-(5-Chloro-4,6-dimethylpyrimidin-2-yl)hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl)(3-fluoro-2-(pyrimidin-2-yl)phenyl)methanone.

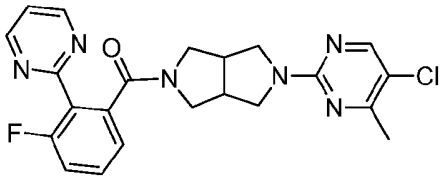
[1171]



[1172] The title prophetic compound may be synthesized utilizing 3-fluoro-2-(pyrimidin-2-yl)benzoic acid and 2,5-dichloro-4,6-dimethylpyrimidine. MS (ESI) mass calcd. $C_{23}H_{22}ClFN_6O_2$, 452.91

Example 396: (5-(5-Chloro-4-methylpyrimidin-2-yl)hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl)(3-fluoro-2-(pyrimidin-2-yl)phenyl)methanone.

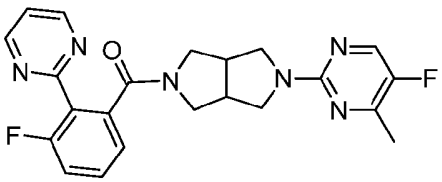
[1173]



[1174] The title prophetic compound may be synthesized utilizing 3-fluoro-2-(pyrimidin-2-yl)benzoic acid and 2,5-dichloro-4-methylpyrimidine. MS (ESI) mass calcd. $C_{22}H_{20}ClFN_6O$, 438.89.

Example 397: (3-Fluoro-2-(pyrimidin-2-yl)phenyl)(5-(5-fluoro-4-methylpyrimidin-2-yl)hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl)methanone.

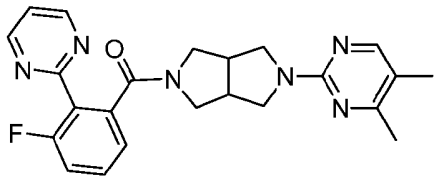
[1175]



[1176] The title prophetic compound may be synthesized utilizing 3-fluoro-2-(pyrimidin-2-yl)benzoic acid and 2-chloro-5-fluoro-4-methylpyrimidine. MS (ESI) mass calcd. $C_{22}H_{20}F_2N_6O$, 434.49.

Example 398: (5-(4,5-Dimethylpyrimidin-2-yl)hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl)(3-fluoro-2-(pyrimidin-2-yl)phenyl)methanone.

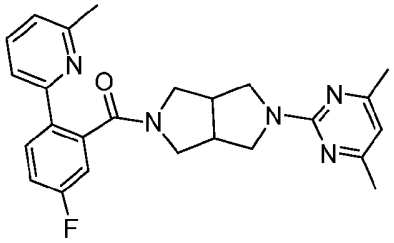
[1177]



[1178] MS (ESI) mass calcd. $C_{23}H_{23}FN_6O$, 418.47

Example 399: (5-(4,6-Dimethylpyrimidin-2-yl)hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl)(5-fluoro-2-(6-methylpyridin-2-yl)phenyl)methanone.

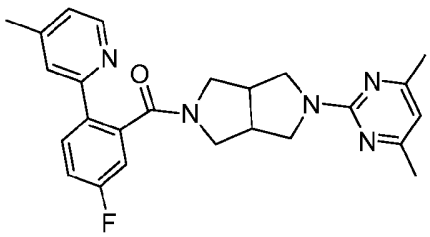
[1179]



[1180] The title compound was prepared in a manner analogous to Example 248, substituting (5-(4,6-dimethylpyrimidin-2-yl)hexahydropyrrolo[3,4-c]pyrrol-2(1 H)-yl)(5-fluoro-2-iodophenyl)methanone for (5-(4,6-dimethylpyrimidin-2-yl)hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl)(4-fluoro-2-iodophenyl)methanone and 6-methyl-2-(tributylstannyl)pyridine for 2-tributylstannane pyrimidine, with the addition of CuI. MS (ESI) mass calcd. for $C_{25}H_{26}FN_5O$, 431.21; m/z found 432.2 $[M+1]^+$.

Example 400: (5-(4,6-Dimethylpyrimidin-2-yl)hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl)(5-fluoro-2-(4-methylpyridin-2-yl)phenyl)methanone.

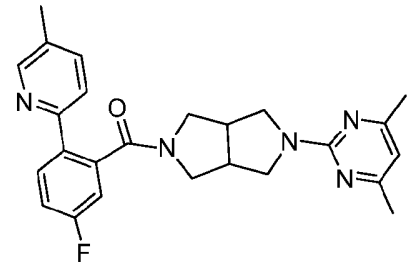
[1181]



[1182] The title compound was prepared in a manner analogous to Example 399, substituting 4-methyl-2-(tributylstannyl)pyridine for 6-methyl-2-(tributylstannyl)pyridine. MS (ESI) mass calcd. for $C_{25}H_{26}FN_5O$, 431.21; m/z found 432.2 $[M+1]^+$.

Example 401: (5-(4,6-Dimethylpyrimidin-2-yl)hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl)(5-fluoro-2-(5-methylpyridin-2-yl)phenyl)methanone.

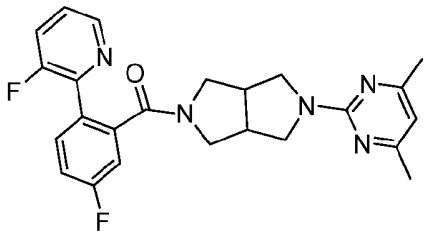
[1183]



[1184] The title compound was prepared in a manner analogous to Example 399, substituting 5-methyl-2-(tributylstannyl)pyridine for 6-methyl-2-(tributylstannyl)pyridine. MS (ESI) mass calcd. for $C_{25}H_{26}FN_5O$, 431.21; m/z found 432.2 $[M+1]^+$.

Example 402: (5-(4,6-Dimethylpyrimidin-2-yl)hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl)(5-fluoro-2-(3-fluoropyridin-2-yl)phenyl)methanone.

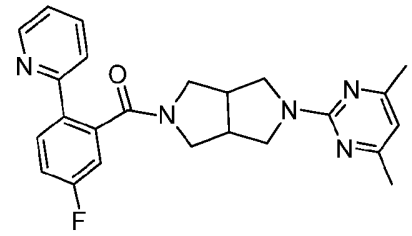
[1185]



[1186] The title compound was prepared in a manner analogous to Example 399, substituting 3-fluoro-2-(tributylstannyl)pyridine for 6-methyl-2-(tributylstannyl)pyridine. MS (ESI) mass calcd. for $C_{24}H_{23}F_2N_5O$, 435.19; m/z found 436.2 $[M+1]^+$.

Example 403: (5-(4,6-Dimethylpyrimidin-2-yl)hexahydropyrrolo[3,4-c]pyrrol-2(1 H)-yl)(5-fluoro-2-(pyridin-2-yl)phenyl)methanone.

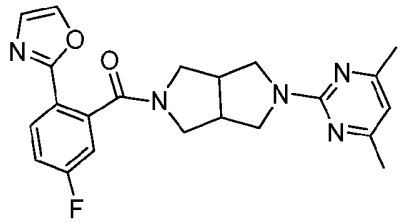
[1187]



[1188] The title compound was prepared in a manner analogous to Example 399, substituting 2-tri-N-butylstannylpyridine for 6-methyl-2-(tributylstannyl)pyridine. MS (ESI) mass calcd. for $C_{24}H_{24}FN_5O$, 417.20; m/z found 418.2 $[M+1]^+$.

Example 404: (5-(4,6-Dimethylpyrimidin-2-yl)hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl)(5-fluoro-2-(oxazol-2-yl)phenyl)methanone.

[1189]

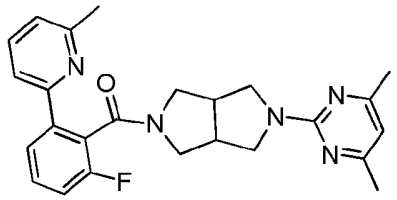


[1190] The title compound was prepared in a manner analogous to Example 399, substituting 2-(tri-N-butylstannyl)oxazole for 6-methyl-2-(tributylstannyl)pyridine. MS (ESI) mass calcd. for $C_{22}H_{22}FN_5O_2$, 407.18; ^1H NMR (400 MHz, $CDCl_3$): 8.04 (dd, J = 8.8, 5.3 Hz, 1 H), 7.65 (s, 1 H), 7.20 - 7.13 (m, 2H), 7.07 (dd, J = 8.3, 2.6 Hz, 1 H), 6.29 (s, 1 H), 3.95 (dd, J = 12.6, 7.6 Hz, 1 H), 3.88 (dd, J = 11.6, 7.6 Hz, 1 H), 3.78 - 3.63 (m, 3H), 3.51 - 3.45 (m, 1 H), 3.41 (dd, J = 10.8, 7.5 Hz, 1 H), 3.11 - 3.02 (m, 2H), 3.00 - 2.90 (m, 1 H), 2.29 (s, 6H).

[1191] Prophetic examples 405-410 may be made using the procedures described previously.

Example 405: (5-(4,6-Dimethylpyrimidin-2-yl)hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl)(6-fluoro-2-(6-methylpyridin-2-yl)phenyl)methanone.

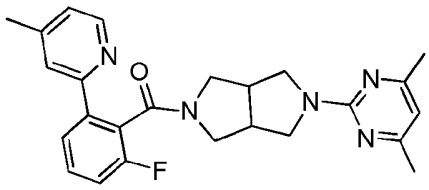
[1192]



[1193] MS (ESI) mass calcd. for $C_{25}H_{26}FN_5O$, 431.21;

Example 406: (5-(4,6-Dimethylpyrimidin-2-yl)hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl)(6-fluoro-2-(4-methylpyridin-2-yl)phenyl)methanone.

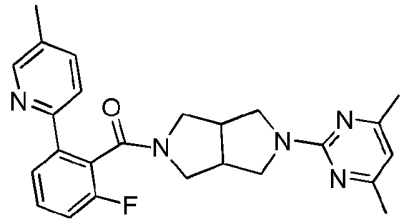
[1194]



[1195] MS (ESI) mass calcd. for $C_{25}H_{26}FN_5O$, 431.21;

Example 407: (5-(4,6-Dimethylpyrimidin-2-yl)hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl)(6-fluoro-2-(5-methylpyridin-2-yl)phenyl)methanone.

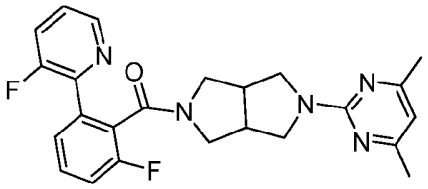
[1196]



[1197] MS (ESI) mass calcd. for $C_{25}H_{26}FN_5O$, 431.21;

Example 408: (5-(4,6-Dimethylpyrimidin-2-yl)hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl)(6-fluoro-2-(3-fluoropyridin-2-yl)phenyl)methanone.

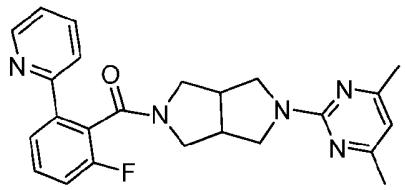
[1198]



[1199] MS (ESI) mass calcd. for $C_{24}H_{23}F_2N_5O$, 435.19;

Example 409: (5-(4,6-Dimethylpyrimidin-2-yl)hexahydropyrrolo[3,4-c]pyrrol-2(1 H)-yl)(6-fluoro-2-(pyridin-2-yl)phenyl)methanone.

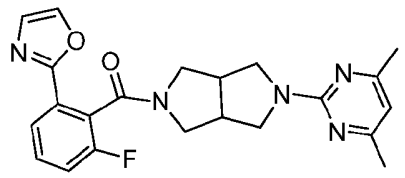
[1200]



[1201] MS (ESI) mass calcd. for $C_{24}H_{24}FN_5O$, 417.20;

Example 410: (5-(4,6-Dimethylpyrimidin-2-yl)hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl)(6-fluoro-2-(oxazol-2-yl)phenyl)methanone.

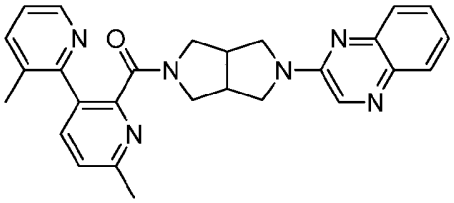
[1202]



[1203] MS (ESI) mass calcd. for $C_{22}H_{22}FN_5O_2$, 407.18;

Example 411:(3,6'-Dimethyl-[2,3'-bipyridin]-2'-yl)(5-(quinoxalin-2-yl)hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl)methanone.

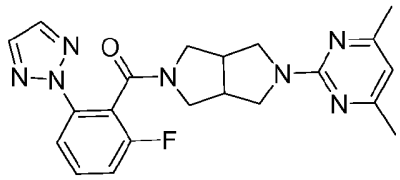
[1204]



[1205] MS (ESI) mass calcd. For $C_{27}H_{26}N_6O$, 450.22.

Example 412: [5-(4,6-Dimethyl-pyrimidin-2-yl)-hexahydro-pyrrolo[3,4-c]pyrrol-2-yl]-(2-fluoro-6-[1,2,3]triazol-2-yl-phenyl)-methanone•HCl•1.65H_2O.

[1206]



[1207] To a mixture of [5-(4,6-dimethyl-pyrimidin-2-yl)-hexahydro-pyrrolo[3,4-c]pyrrol-2-yl]-(2-fluoro-6-[1,2,3]triazol-2-yl-phenyl)-methanone (200 mg, 0.47 mmol) and IPA (1.5 mL) at room temperature was added 6 M $HCl_{(aq)}$ (83 μL, 0.5 mmol). The mixture was warmed to 75 °C and then slowly cooled to 35 °C. The mixture was then seeded with solids formed previously [The seeds were formed as follows: To a mixture of [5-(4,6-dimethyl-pyrimidin-2-yl)-hexahydro-pyrrolo[3,4-c]pyrrol-2-yl]-(2-fluoro-6-[1,2,3]triazol-2-yl-phenyl)-methanone (200 mg, 0.47 mmol) and IPA (2 mL) at room temperature was added 5 M HCl in IPA (100 μL, 0.5 mmol). The mixture became homogeneous and was stirred at room temperature for 3 weeks. Solids formed when the solvent was allowed to evaporate under an ambient atmosphere.]. Once seeded, the mixture was cooled to room temperature and stirred for 3 days. The resulting solids were filtered and washed with IPA (0.5 mL). The solids were then dried in a vacuum oven for 2 h at 45 °C to give the title compound as a white solid (201.9 mg, 91%). ^{1}H NMR (600 MHz, DMSO-d_6): 8.16 (s, 0.8H), 8.05 (s, 1.2H), 7.83 (d, J = 8.2, 0.4H), 7.79 (d, J = 8.2, 0.6H), 7.70 - 7.64 (m, 1 H), 7.48 - 7.41 (m, 1 H), 6.71 (bs, 1 H), 4.0-3.4 (m, 7H), 3.25 - 2.96 (m, 3H), 2.48 - 2.33 (m, 6H). Anal. Calcd. For $C_{21}H_{22}FN_7O$•HCl•1.65H_2O C, 53.25; H, 5.60; N, 20.70; Cl, 7.49; found C, 53.54; H, 5.64; N, 21.04; Cl, 7.10. Water calculated, 6.28%; found by Karl-Fisher titration, 6.32%.

Biological Assays

[1208] The in vitro affinity of the compounds for the human orexin-1 and orexin-2 receptors was determined by competitive radioligand binding using [^{3}H]SB SB674042 (1-(5-(2-fluoro-phenyl)-2-methyl-thiazol-4-yl)-1-((S)-2-(5-phenyl-(1,3,4)oxadiazol-2-ylmethyl)-pyrrolidin-1-yl)-methanone) (Langmead et al., Brutish Journal of Pharmacology 2004, 141:340-346.) and [^{3}H]EMPA (N-ethyl-2[(6-methoxy-pyridin-3-yl)-(toluene-2-sulfonyl)-amino]-N-pyridin-3-ylmethyl acetamide) (Malherbe et al., British Journal of Pharmacology, 2009, 156(8), 1326-1341), respectively.

[1209] The in vitro functional antagonism of the compounds on the human orexin-1 and orexin-2 receptors was determined using fluorometric imaging plate reader (FLIPR) based calcium assays.

Human orexin 1 receptor radioligand binding studies

[1210] Chinese ovary cells (CHO) stably expressing human orexin 1 receptor (Genebank accession number NM_001526) were grown to confluency in DMEM/F12 (Gibco, Cat #11039), 10%FBS, 1X Pen/Strep, 600 μg/mL G418 media on 150 cm^2 tissue culture plates, washed with 5 mM EDTA in PBS (HyClone Dulbecco's Phosphate Buffered Saline 1X with Calcium and Magnesium, Cat # SH30264.01, hereafter referred to simply as PBS) and scraped into 50 ml tubes. After centrifugation (2K xG, 10 min at 4°C), the supernatant was aspirated and the pellets frozen and stored at -80°C. Cells were resuspended in PBS in the presence of 1 tablet of protease inhibitor cocktail (Roche, Cat. #11836145001) per 50 mL. Each cell pellet from a 15 cm plate was resuspended in 10 mL, stored on ice, and vortexed for 45 sec prior to addition to the reactions. Competition binding experiments in 96 well polypropylene plates were performed using [^{3}H]-SB674042 (Moravek Corporation, specific activity = 35.3 Ci/mmol), diluted to a 10 nM concentration in PBS (4 nM final). Compounds were solubilized in 100% DMSO (Acros Organics, Cat. #61042-1000) and tested over

a range of 7 concentrations (from 0.1 nM to 10 μM). The final concentration of DMSO in the reactions is equal to or less than 0.1 %. Total and nonspecific binding was determined in the absence and presence of 10 μM (1-(6,8-difluoro-2-methylquinolin-4-yl)-3-[4-(dimethylamino)phenyl]urea, CAS Registry # 288150-92-5). The total volume of each reaction is 200 μL (20 μL of diluted compounds, 80 μL of [^{3}H]-SB674042 diluted in PBS and 100 μL of the cell suspension). Reactions were run for 60 min at room temperature and terminated by filtration through GF/C filter plates (PerkinElmer, Cat. #6005174) presoaked in 0.3% polyethylenimine using the cell harvester (PerkinElmer Filtermate). The plates were washed 3 times by aspirating 30 ml PBS through the plates. Plates were dried in 55°C oven for 60 min, scintillation fluid was added, and the radioactivity was counted on a Topcount (Packard).

[1211] IC_{50} values (i.e. concentration of unlabelled compound required to compete for 50% of specific binding to the radioligand) were calculated using the GraphPad Prism software (GraphPad Prism Software Inc., San Diego, CA) with a fit to a sigmoidal dose-response curve. Apparent K_i values were calculated as $K_i = IC_{50}/(1+C/K_d)$, where C is concentration of radioligand and K_d = 4 nM.

Human orexin 2 receptor radioligand binding studies

[1212] HEK293 stably expressing human orexin-2 receptor (Genebank accession number NM_001526) were grown to confluency in DMEM/F12 (Gibco, Cat #11039), in DMEM, 10%FBS, 1X Pen/Strep, 1X NaPyruvate, 1X HEPES, 600 ug/ml G418 media on 150 cm^2 tissue culture plates, washed with 5 mM EDTA in PBS (HyClone Dulbecco's Phosphate Buffered Saline 1X with Calcium and Magnesium, Cat # SH30264.01, hereafter referred to simply as PBS) and scraped into 50 ml tubes. After centrifugation (2K xG, 10 min at 4°C), the supernatant was aspirated and the pellets frozen and stored at -80°C. Cells were resuspended in PBS in the presence of 1 tablet of protease inhibitor cocktail (Roche, Cat. #11836145001) per 50 mL. Each cell pellet from a 15 cm plate was resuspended in 10 mL, stored on ice, and vortexed for 45 sec just prior to addition to the reactions. Competition binding experiments in 96 well polypropylene plates were performed using [^{3}H]-EMPA (Moravek Corporation, specific activity = 27 Ci/mmol), diluted to a 20 nM concentration in PBS (5 nM final concentration). Compounds were solubilized in 100% DMSO (Acros Organics, Cat. #61042-1000) and tested over a range of 7 concentrations (from 0.1 nM to 10 μM). The final concentration of DMSO in the reactions is equal to or less than 0.1%. Total and nonspecific binding was determined in the absence and presence of 10 μM (N-[2-(3,4-dimethoxyphenyl)ethyl]-N-methylnaphthalene-1-carboxamide, CAS Registry # 1089563-88-1). The total volume of each reaction is 200 μL (20 μL of diluted compounds, 80 μL of [^{3}H]-EMPA diluted in PBS and 100 μL of the cell suspension). Reactions were run for 60 min at room temperature and terminated by filtration through GF/C filter plates (PerkinElmer, Cat. #6005174) presoaked in 0.3% polyethylenimine using the cell harvester (PerkinElmer Filtermate). The plates were washed 3 times by aspirating 30 ml PBS through the plates. Plates were dried in 55°C oven for 60 min, scintillation fluid was added, and the radioactivity was counted on a Topcount (Packard). IC_{50} values (i.e. concentration of unlabelled compound required to compete for 50% of specific binding to the radioligand) were calculated using the GraphPad Prism software (GraphPad Prism Software Inc., San Diego, CA) with a fit to a sigmoidal dose-response curve. Apparent K_i values were calculated as $K_i = IC_{50}/(1+C/K_d)$, where C is concentration of radioligand and K_d = 2 nM.

Human orexin 1 receptor Ca^{2+} mobilization assay

[1213] CHO cells stably transfected with the human orexin-1 receptor (Genebank accession number NM_001526) were grown to confluency in DMEM/F12, 10% FBS, 1X Na Pyruvate, 1X pen-strep, 400 μg/ml G418. Cells were seeded on to 96-well Packard viewplates at a density of 50,000 cells/well and incubated overnight at 37°C, 5% CO_2. The cells were dye-loaded with 4 μM Ca^{2+} dye Fluo-3AM in serum-free DMEM/F-12 with 2.5 mM probenecid and incubated at 37°C, 5% CO_2 for one hour. Cells were pre-incubated with compounds (diluted in DMEM/F-12) for 30 minutes before agonist (orexin A, 10 nM) stimulation. Ligand-induced Ca^{2+} release was measured using a Fluorometric Imaging Plate Reader (FLIPR, Molecular Devices, Sunnyvale, CA). Functional responses were measured as peak fluorescence intensity minus basal. The concentration of agonist that produced a half-maximal response is represented by the EC_{50} value. Antagonistic potency values were converted to apparent pK_B values using a modified Cheng-Prusoff correction. Apparent pK_B = - log IC_{50}/1+[conc agonist/EC_{50}]. Data are expressed as mean ± S.E.M.

Human orexin 2 receptor Ca^{2+} mobilization assay

[1214] PFSK cells endogenously expressing the human orexin 2 receptor were grown to confluency in RPM11640, 10% FBS, 1X pen-strep. Cells were seeded on to 96-well Packard viewplates at a density of 50,000 cells/well and incubated overnight at 37°C, 5% CO_2. The cells were dye-loaded with 4 μM Ca^{2+} dye Fluo-3AM in serum-free DMEM/F-12 with 2.5 mM probenecid and incubated at 37°C, 5% CO_2 for one hour. Cells were pre-incubated with compounds (diluted in DMEM/F-12) for 30 minutes before agonist (orexin B, 100 nM) stimulation. Ligand-induced Ca^{2+} release was measured using a Fluorometric Imaging Plate Reader (FLIPR, Molecular Devices, Sunnyvale, CA). Functional responses

were measured as peak fluorescence intensity minus basal. The concentration of agonist that produced a half-maximal response is represented by the EC_{50} value. Antagonistic potency values were converted to apparent pK_B values using a modified Cheng-Prusoff correction. Apparent pK_B = - log IC_{50}/1+[conc agonist/EC_{50}]. Data are expressed as mean ± S.E.M, the designation of NT means not tested.

Ex #	OR 2 Ki (nM)	OR 2 Kb	OR 1 Ki (nM)	Ex #	OR 2 Ki (nM)	OR 2 Kb	OR 1 Ki (nM)
1	37	10	100	193	1156	NT	814
2	33	16	189	194	10000	NT	NT
3	42	14	127	195	1099	NT	646
4	65	32	447	196	10000	NT	NT
5	14	5	63	197	1163	NT	NT
6	67	25	154	198	1312	NT	2012
7	42	13	139	199	3777	NT	NT
8	542	NT	10000	200	10000	NT	10000
9	101	56	691	201	1372	NT	10000
10	170	NT	6708	202	5000	NT	10000
11	1438	NT	10000	203	5000	NT	10000
12	46	32	4378	204	50	20	169
13	89	79	10000	205	3189	NT	10000
14	28	9	2780	206	1266	NT	10000
15	13	2	1824	207	8999	NT	10000
16	300	NT	10000	208	2100	NT	10000
17	730	NT	NT	209	8999	NT	10000
18	519	NT	1264	210	3000	NT	10000
19	24	31	77	211	44	25	10000
20	92	129	263	212	33	32	5000
21	352	NT	1091	213	56	50	10000
22	70	158	303	214	1227	NT	1077
23	364	NT	677	215	5000	NT	10000
24	415	NT	1544	219	404	NT	10000
25	110	99	162	220	500	NT	10000
26	8999	NT	NT	221	2211	NT	10000
27	740	NT	NT	222	3621	NT	10000
28	575	NT	1787	223	340	NT	10000
29	135	NT	1009	224	635	NT	10000
30	790	NT	NT	225	423	NT	10000
31	425	NT	651	226	836	NT	10000
32	47	32	8999	227	1472	NT	10000
33	250	NT	488	228	184	NT	10000
34	79	NT	143	229	319	NT	10000
35	722	NT	4370	230	254	NT	10000

(continued)

Ex #	OR 2 Ki (nM)	OR 2 Kb	OR 1 Ki (nM)	Ex #	OR 2 Ki (nM)	OR 2 Kb	OR 1 Ki (nM)
36	449	NT	1459	231	68	7	1613
37	181	NT	137	232	52	7	2078
38	515	NT	887	233	2100	NT	10000
39	8999	NT	10000	234	10000	NT	10000
40	559	NT	1433	235	560	NT	10000
41	356	NT	2512	236	10000	NT	10000
42	616	NT	5000	237	69	18	8247
43	7	10	422	238	243	NT	10000
44	142	63	10000	239	7	4	173
45	36	10	723	240	7	3	460
46	132	NT	294	241	17	7	978
47	38	32	1124	242	39	13	633
48	716	NT	10000	243	16	6	358
49	78	32	1692	244	18	5	660
50	215	NT	10000	245	58	15	369
51	644	NT	10000	246	11	11	208
52	65	50	8999	247	650	NT	4399
53	5000	NT	10000	248	170	NT	1400
54	769	NT	5000	249	NT	NT	NT
55	744	NT	8999	250	NT	NT	NT
56	80	40	800	251	25	2	1470
57	167	NT	2323	252	10000	NT	10000
58	227	NT	5000	253	5000	NT	10000
59	778	NT	8999	254	2200	NT	10000
60	173	NT	2644	255	10000	NT	10000
61	224	NT	2272	256	10000	NT	10000
62	42	40	689	257	19	5	1843
63	44	20	2171	258	46	25	927
64	579	NT	10000	259	8	3	335
65	228	NT	207	260	90	16	8999
66	449	NT	415	261	477	NT	10000
67	119	NT	10000	262	500	NT	10000
68	13	16	225	263	10000	NT	10000
69	17	8	3082	264	10000	NT	10000
70	52	40	2630	265	8999	NT	10000
71	1000	NT	10000	266	127	NT	8999
72	318	NT	8999	267	10000	NT	10000
73	7	5	69	268	265	NT	10000

(continued)

Ex #	OR 2 Ki (nM)	OR 2 Kb	OR 1 Ki (nM)	Ex #	OR 2 Ki (nM)	OR 2 Kb	OR 1 Ki (nM)
74	14	10	4275	269	10000	NT	10000
75	119	32	9226	270	1033	NT	10000
76	237	NT	10000	271	5000	NT	10000
77	25	16	547	272	33	7	598
78	550	NT	10000	273	5000	NT	10000
79	480	NT	8999	274	61	16	8999
80	314	NT	8999	275	487	NT	10000
81	1223	NT	6708	276	2947	NT	10000
82	379	NT	10000	277	680	NT	10000
83	12	4	1766	278	2274	NT	10000
84	53	25	1322	279	23	10	1603
85	98	63	1162	280	41	63	71
86	256	NT	2603	281	8999	NT	10000
87	509	NT	10000	282	858	NT	1436
88	75	25	8999	283	10	2	978
89	452	NT	10000	284	8	2	587
90	38	25	1734	285	1500	NT	10000
91	541	NT	10000	286	10000	NT	10000
92	766	NT	8999	287	1400	NT	10000
93	64	40	5000	288	11	3	1606
94	551	NT	847	289	1800	NT	10000
95	215	NT	774	290	19	7	2150
96	68	50	2429	291	266	NT	10000
97	25	16	354	292	428	NT	10000
98	28	10	275	293	19	79	2186
99	15	16	180	294	4	3	125
100	238	NT	10000	295	24	10	1100
101	48	25	4234	296	9	3	235
102	17	6	463	297	6	NT	261
103	38	32	2280	298	9	NT	160
104	42	25	3604	299	15	NT	389
105	20	20	2451	300	290	NT	2800
106	26	20	212	301	36	20	114
107	9	2	868	302	17	8	173
108	57	25	80	303	1700	NT	10000
109	46	25	65	304	3100	NT	10000
110	52	32	350	305	7	NT	775
111	28	16	153	306	39	13	2300

(continued)

Ex #	OR 2 Ki (nM)	OR 2 Kb	OR 1 Ki (nM)	Ex #	OR 2 Ki (nM)	OR 2 Kb	OR 1 Ki (nM)
112	95	20	122	307	10000	NT	10000
113	50	63	90	308	26	5	1743
114	224	NT	3061	309	7	6	414
115	5000	NT	10000	310	64	15	4996
116	22	13	61	311	7	3	312
117	24	8	42	312	79	11	3472
118	19	5	1843	313	7	3	128
119	51	13	3568	314	13	4	958
120	71	13	2867	315	38	10	2837
121	15	13	42	316	10	8	306
122	865	NT	10000	317	3	3	34
123	44	79	10000	318	5	3	89
124	422	NT	10000	319	18	7	537
125	901	NT	8999	320	4	2	54
126	95	100	75	321	29	10	816
127	55	20	40	322	10	5	378
128	18	4	1250	323	25	4	2474
129	111	100	1538	324	16	4	388
130	32	16	3438	325	16	2	1662
131	75	79	131	326	8	4	151
132	125	79	7071	327	103	50	5500
133	291	NT	390	328	112	40	6345
134	102	12	2722	329	10000	NT	10000
135	90	40	10000	330	10000	NT	10000
136	104	50	8999	331	81	32	3791
137	50	25	891	332	114	63	10000
138	30	40	231	333	10000	NT	10000
139	63	63	83	334	277	NT	10000
140	119	NT	1538	335	59	NT	3200
141	1034	NT	415	336	288	NT	10000
142	315	NT	2318	337	513	NT	10000
143	81	79	150	338	1604	NT	10000
144	87	63	537	339	8999	NT	10000
145	45	32	70	340	1521	NT	10000
146	27	16	137	341	10000	NT	10000
147	85	63	2946	342	9486	NT	10000
148	129	NT	947	343	36	NT	2900
149	173	NT	142	344	1500	NT	10000

(continued)

Ex #	OR 2 Ki (nM)	OR 2 Kb	OR 1 Ki (nM)	Ex #	OR 2 Ki (nM)	OR 2 Kb	OR 1 Ki (nM)
150	92	40	5000	346	25	NT	1800
151	184	NT	504	347	3100	NT	10000
152	125	NT	10000	349	10000	NT	10000
153	75	40	2645	351	1200	NT	10000
154	241	NT	9654	352	10000	NT	3111
155	33	16	8999	353	10000	NT	10000
156	39	16	5000	355	10000	NT	10000
157	69	16	5000	356	10000	NT	10000
158	55	8	5000	358	230	NT	10000
159	45	8	2447	359	180	NT	10000
160	58	20	659	361	4399	NT	10000
161	46	7	5317	362	1800	NT	2700
162	43	5	5000	366	23	NT	1900
163	380	501	NT	367	15	3	839
164	289	200	722	369	19	NT	1200
165	852	NT	4637	370	84	7	7874
166	465	NT	752	371	3400	NT	10000
167	411	631	2803	372	109	NT	8000
168	66	126	851	373	42	5	10000
169	595	NT	1784	374	73	12	1049
170	945	NT	NT	375	21	4	3186
171	780	NT	NT	376	17	NT	1591
172	450	NT	NT	377	17	2	2186
173	950	NT	NT	378	10	2	508
174	729	NT	NT	379	9	5	202
175	669	NT	1391	380	15	5	2039
176	236	158	923	381	10000	NT	10000
177	339	NT	NT	382	14	3	854
178	123	126	762	383	13	4	920
179	8999	NT	NT	384	10	5	1385
180	2300	NT	NT	385	42	8	3688
181	3564	NT	8999	386	940	NT	10000
182	2198	NT	10000	387	16	9	437
183	5000	NT	NT	388	30	NT	694
184	1037	NT	879	389	22	14	492
185	8999	NT	NT	390	190	NT	10000
186	10000	NT	NT	391	28	NT	1200
187	2283	NT	NT	399	570	NT	10000

(continued)

Ex #	OR 2 Ki (nM)	OR 2 Kb	OR 1 Ki (nM)		Ex #	OR 2 Ki (nM)	OR 2 Kb	OR 1 Ki (nM)
188	2608	NT	NT		400	510	NT	10000
189	1600	NT	NT		401	830	NT	10000
190	1300	NT	5000		402	120	NT	10000
191	2658	NT	NT		403	180	NT	10000
192	1015	NT	NT		404	19	NT	1200

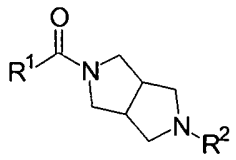
Powder X-Ray Diffraction

[5-(4,6-Dimethyl-pyrimidin-2-yl)-hexahydro-pyrrolo[3,4-c]pyrrol-2-yl]-(2-fluoro-6-[1,2,3]triazol-2-yl-phenyl)-methanone.

[1215] Powder X-Ray Diffraction of the reference compound was performed on a Philips X'PERT PRO with X'Celerator Cu detector equipped with a real time multiple strips X-ray detection technology to obtain the X-ray powder patterns in Figure 1. The samples were scanned from 4 ° to 40 ° 2θ, at a step size 0.0167 ° 2θ and a time per step of 29.8450 seconds. The tube voltage and current were 45 kV and 40 mA, respectively. The samples were placed onto zero background holders and analyzed on a spinning stage.

Claims

1. A chemical entity that is a compound of Formula (I):



Formula (I)

wherein:

R^1 is a member selected from the group consisting of:

A) phenyl substituted or unsubstituted with one or two R^a members and substituted in the *ortho* position with R^b;
R^a is independently selected from the group consisting of: -H, halo,-C_{1-4}alkyl, -C_{1-4}alkoxy, and -NO_2, wherein two adjacent R^a members may come together to form a six membered aromatic ring;
R^b is a member selected from the group consisting of:

a) halo, -C_{1-4}alkoxy, -C_{1-4}alkyl,-CF_3, -OCF_3, or -CN;
b) 5-membered heteroaryl ring containing one oxygen or one sulfur members;
c) 5-6 membered heteroaryl ring containing one, two or three nitrogen members, optionally containing one oxygen member, substituted or unsubstituted with halo or -C_{1-4}alkyl; and
d) phenyl substituted or unsubstituted with halo, -CH_3, or -CF_3;

B) pyridine substituted or unsubstituted with one or two R^c members and substituted with R^d, wherein R^d is positioned adjacent to the point of attachment by R^1;
R^c is C_{1-4}alkyl;
R^d is a member selected from the group consisting of:

a) 5-6 membered heteroaryl ring selected from the group consisting of: 1H-1,2,3-triazol-1-yl, 2H-1,2,3-triazol-2-yl, 1H-pyrazol-5-yl, 3-methyl-1,2,4-oxadiazol-5-yl, pyridinyl, 3-methyl-pyridin-2-yl; 1-(tetrahy-

dro-2H-pyran-2-yl)-1H-pyrazol-5-yl), phenyl, and pyrimidin-2-yl; and
b) $-CF_3$, -Br, and $-C_{1-4}$alkoxy;

C) 5-membered heteroaryl ring selected from the group consisting of: 2-methyl-1,3-thiazol-yl, 1H-pyrazol-5-yl, oxazole, isoxazolyl, thiophen-2-yl, and furan-2-yl, each substituted with phenyl substituted or unsubstituted with -F; and
D) 5-13 membered aryl or heteroaryl ring selected from the group consisting of: 3-methylfuran-2-yl, 9H-fluorene, quinoline, cinnoline; 3-(1H-pyrrol-1-yl)thiophen-2-yl, 8-[1,2,3]-triazol-2-yl-naphthalen-1-yl, 2,3-dihydro-1,4-benzodioxin-5-yl, 1H-indol-7-yl, 4-fluoronaphthalen-1-yl, and naphthalen-1-yl;

R^2 is a member selected from the group consisting of:

A) 6-membered heteroaryl ring containing two nitrogen members substituted with one or more members independently selected from the group consisting of: halo, $-C_{1-4}$alkyl, $-CD_3$, -D, $-C_{1-4}$alkoxy, cyclopropyl, morpholin-2-yl, $-CO_2C_{1-4}$alkyl, $-CO_2H$, $-CH_2OH$, $-C(O)N(C_{1-4}alkyl)_2$, $-CF_3$, -CN, -OH, $-NO_2$, $-N(C_{1-4}alkyl)_2$, phenyl, furan-2-yl, thiophen-2-yl, 1H-pyrazol-4-yl, and pyrrolidin-1-yl;
B) pyridine substituted with one or two members independently selected from the group consisting of: halo, $-C_{1-4}$alkyl, $-C_{1-4}$alkoxy, and $-CF_3$;
C) 9-membered heteroaryl ring selected from the group consisting of benzooxazol-2-yl, 6-fluoro-1,3-benzothiazole, 1,3-benzothiazole, 6-methoxy-1,3-benzothiazole, 6-methyl-1,3-benzothiazole, 6-chloro-benzothiazol-2-yl, and 4-methyl-6,7-dihydro-5H-cyclopenta[d]pyrimidine;
D) 10-membered heteroaryl ring selected from the group consisting of quinoxalin-2-yl, 3-methylquinoxalin-2-yl, 6,7-difluoroquinoxalin-2-yl, 3-(trifluoromethyl)quinoxaline, quinoline, 4-methylquinoline, and 6-fluoroquinazolin-2-yl; and
E) 4-methyl-1,3,5-triazin-2-yl or 2-methylpyrimidin-4(3H)-one;

and pharmaceutically acceptable salts of compounds of Formula (I).

2. The chemical entity according to claim 1, wherein the chemical entity is [5-(4,6-Dimethyl-pyrimidin-2-yl)-hexahydro-pyrrolo[3,4-c]pyrrol-2-yl]-(2-fluoro-6-[1,2,3]triazol-2-yl-phenyl)-methanone or a pharmaceutically acceptable salt thereof.

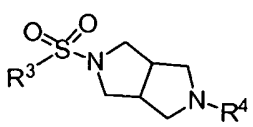
3. The chemical entity according to claim 2, wherein the chemical entity is the HCl salt of [5-(4,6-Dimethyl-pyrimidin-2-yl)-hexahydro-pyrrolo[3,4-c]pyrrol-2-yl]-(2-fluoro-6-[1,2,3]triazol-2-yl-phenyl)-methanone.

4. The chemical entity according to claim 2, wherein the chemical entity is [5-(4,6-Dimethyl-pyrimidin-2-yl)-hexahydro-pyrrolo[3,4-c]pyrrol-2-yl]-(2-fluoro-6-[1,2,3]triazol-2-yl-phenyl)-methanone.

5. The chemical entity according to claim 1, wherein the chemical entity is 2-(4,6-Dimethylpyrimidin-2-yl)-5-{[4-methoxy-2-(2H-1,2,3-triazol-2-yl)phenyl]carbonyl}octahydropyrrolo[3,4-c]pyrrole or a pharmaceutically acceptable salt thereof.

6. The chemical entity according to claim 5, wherein the chemical entity is 2-(4,6-Dimethylpyrimidin-2-yl)-5-{[4-methoxy-2-(2H-1,2,3-triazol-2-yl)phenyl]carbonyl}octahydropyrrolo[3,4-c]pyrrole.

7. A chemical entity selected from compounds of Formula (II):



(II)

wherein

R^3 is phenyl substituted or unsubstituted with a member independently selected from the group consisting of: $-C_{1-4}$alkoxy, and phenyl; and

R^4 is a member selected from the group consisting of (5-trifluoromethyl)-pyridin-2-yl, (5-trifluoromethyl)-pyrimidin-2-yl, 4,6-dimethylpyrimidin-2-yl, and quinoxalin-2-yl;

and pharmaceutically acceptable salts of compounds of Formula (II).

8. A chemical entity defined in claim 1, wherein R^1 is phenyl, where R^a is a member independently selected from the group consisting of -F, -I, -Cl, $-OCH_3$, $-OCH_2CH_3$, $-CH_3$, $-CH(CH_3)_2$, $-C(CH_3)_3$ and $-NO_2$.

9. A chemical entity defined in claim 1, wherein R^1 is phenyl wherein R^b is a member selected from the group consisting of -Br, -F, -I, $-C_{1-4}$alkyl, $-OCH_3$,$-OCH_2CH_3$, -CN, $-CF_3$, and $-OCF_3$.

10. A chemical entity defined in claim 1, wherein R^1 is phenyl, where R^a is selected from the group consisting of -H, -F, -Cl, $-CH_3$, $-C(CH_3)_3$, $-OCH_3$, and-OCH_2CH_3, and R^b is selected from the group consisting of -Br, -F, -I, $-C_{1-4}$alkyl, $-OCH_3$, $-OCH_2CH_3$, -CN, $-CF_3$, and $-OCF_3$.

11. A chemical entity defined in claim 1, wherein R^1 is phenyl, where R^b is 2-thiophen-2-yl or 2-furan-2-yl.

12. A chemical entity defined in claim 1, wherein R^1 is phenyl, where R^b is selected from the group consisting of phenyl, 3-chlorophenyl, 4-fluorophenyl, 3-fluorophenyl, 4-methylphenyl, and 4-trifluoromethylphenyl.

13. A chemical entity defined in claim 1, wherein R^1 is phenyl, where R^b is a member selected from the group consisting of 1 H-pyrrol-1-yl, 1H-pyrazol-1-yl, 1H-pyrazol-5-yl, 1H-imidazol-2-yl, 1-methyl-1 H-imidazol-2-yl, 1H-1,2,3-triazol-1-yl, 2H-1,2,3-triazol-2-yl, 2H-1,2,3-triazol-1-yl, 1H-1,2,4-triazol-5-yl, 2H-1,2,4-triazol-1-yl, 2H-1,2,4-triazol-3-yl, 4H-1,2,4-triazol-3-yl, 4H-1,2,4-triazol-4-yl, 1-methyl-1H-1,2,4-triazol-3-yl, 1-methyl-1 H-1,2,4-triazol-5-yl and 1-(tetrahydro-2H-pyran-2-yl)-1 H-pyrazol-5-yl.

14. A chemical entity defined in claim 1, wherein R^1 is phenyl, where R^b is a member selected from the group consisting of pyridin-2-yl, 3-chloropyridin-2-yl, 3-fluoropyridin-2-yl, 3-methylpyridin-2-yl, 4-methylpyridin-2-yl, 5-methylpyridin-2-yl, 6-methylpyridin-2-yl, 2-pyridin-3-yl, and 2-pyrimidin-2-yl.

15. A chemical entity defined in claim 1, wherein R^1 is phenyl, where R^b is a member selected from the group consisting of 3-methyl-1,2,4-oxadiazol-5-yl and oxazol-2-yl.

16. A chemical entity defined in claim 1, wherein R^1 is phenyl, where R^a is halo, $-C_{1-4}$alkyl, or $-C_{1-4}$alkoxy, and R^b is triazole or pyrimidine substituted or unsubstituted with halo or $-C_{1-4}$alkyl.

17. A chemical entity defined in claim 1, wherein R^1 is (1-methylethyl)-2-(2H-1,2,3-triazol-2-yl)phenyl, 2-(1H-1,2,3-triazol-1-yl)phenyl, 2-(2H-1,2,3-triazol-2-yl)phenyl, 2-fluoro-6-(2H-1,2,3-triazol-2-yl)phenyl, 2-methyl-6-(2H-1,2,3-triazol-2-yl)phenyl, 3-fluoro-2-(2H-1,2,3-triazol-2-yl)phenyl, 3-fluoro-2-(1H-1,2,3-triazol-1-yl)phenyl, 3-methoxy-2-(1H-1,2,3-triazol-1-yl)phenyl, 3-methoxy-2-(2H-1,2,3-triazol-2-yl)phenyl, 3-methyl-2-(2H-1,2,3-triazol-2-yl)phenyl, 3-methyl-2-(1H-1,2,3-triazol-1-yl)phenyl, 4-fluoro-2-(2H-1,2,3-triazol-2-yl)phenyl, 4-methoxy-2-(2H-1,2,3-triazol-2-yl)phenyl, 4-methoxy-2-(1H-1,2,3-triazol-2-yl)phenyl, 4,5-dimethoxy-2-[1,2,3]triazol-1-yl-phenyl, 4,5-dimethoxy-2-[1,2,3]triazol-2-yl-phenyl, 5-[1,2,3]triazol-2-yl-benzo[1,3]dioxol-4-yl, 5-chloro-2-(2H-1,2,3-triazol-2-yl)phenyl, 5-fluoro-2-(2H-1,2,3-triazol-2-yl)phenyl, 5-iodo-2-(2H-1,2,3-triazol-2-yl)phenyl, 5-methoxy-2-(2H-1,2,3-triazol-2-yl)phenyl, 5-methyl-2-(2H-1,2,3-triazol-2-yl)phenyl, 1-[1,2,3]triazol-2-yl-naphthalen-2-yl, 2-(1H-1,2,4-triazol-1-yl)phenyl, 2-(1H-1,2,4-triazol-5-yl)phenyl, 2-(1-methyl-1H-1,2,4-triazol-5-yl)phenyl, 2-(1-methyl-1H-1,2,4-triazol-3-yl)phenyl, 2-(4H-1,2,4-triazol-3-yl)phenyl, 2-(4H-1,2,4-triazol-4-yl)phenyl, 2-(3-methyl-1,2,4-oxadiazol-5-yl)phenyl, 3-fluoro-2-(3-methyl-1,2,4-oxadiazol-5-yl)phenyl, 2-fluoro-6-(3-methyl-1,2,4-oxadiazol-5-yl)phenyl, 4,5-difluoro-2-(4H-1,2,4-triazol-4-yl)phenyl), 2-fluoro-6-pyrimidin-2-ylphenyl, 2-(pyrimidin-2-yl)pyridin-3-yl, 3-fluoro-2-pyrimidin-2-ylphenyl, 4-fluoro-2-(pyrimidin-2-yl)phenyl, 4-methoxy-2-(pyrimidin-2-yl)phenyl, 5-fluoro-2-pyrimidin-2-ylphenyl, and 5-methyl-2-pyrimidin-2-ylphenyl.

18. A chemical entity defined in claim 1, wherein R^1 is pyridine, where R^d is a member selected from the group consisting of $-CF_3$, -Br, and-$OCH_2CH_2CH_3$.

19. A chemical entity defined in claim 1, wherein R^1 is pyridine, where R^d is a member selected from the group consisting of 1H-pyrazol-5-yl, 2H-1,2,3-triazol-1-yl, 2H-1,2,3-triazol-2-yl, 4H-1,2,3-triazol-1-yl, 1-(tetrahydro-2H-pyran-2-yl)-1H-pyrazol-5-yl, 3-methylpyridin-2-yl, and 3-methyl-1,2,4-oxadiazol-5-yl .

20. A chemical entity defined in claim 1, wherein R^1 is pyridine, where R^d is a member selected from the group consisting of 1H-pyrazol-5-yl, 2H-1,2,3-triazol-1-yl, and 2H-1,2,3-triazol-2-yl.

21. A chemical entity defined in claim 1, wherein R^1 is 1-phenyl-1H-pyrazol-5-yl, 3-phenylthiophen-2-yl, 3-phenylfuran-2-yl, 5-phenyl-1,3-oxazol-4-yl, 5-phenylisoxazol-4-yl, 5-(2-fluorophenyl)-2-methyl-1,3-thiazol-4-yl, 2-methyl-5-phenyl-thiazol-4-yl, or 5-(4-fluorophenyl)-2-methyl-1,3-thiazol-4-yl.

22. A chemical entity defined in claim 1, wherein R^1 is selected from the group consisting of 3-methylfuran-2-yl, 9H-fluorene, quinoline, cinnoline; 3-(1 H-pyrrol-1-yl)thiophen-2-yl, 8-[1,2,3]-triazol-2-yl-naphthalen-1 -yl, 2,3-dihydro-1,4-benzodioxin-5-yl, 1H-indol-7-yl, 4-fluoronaphthalen-1-yl, and naphthalen-1-yl and R^2 is selected from the group consisting of 4,6-dimethylpyrimidin-2-yl, 4-phenyl-pyrimidin-2-yl, quinoxaline, and 4-methoxypyrimidin-2-yl.

23. A chemical entity defined in claim 1, wherein R^2 is pyrimidine substituted with one or more members independently selected from the group consisting of -F, -Cl, -D, $-CD_3$, $-CH_3$, ethyl, isopropyl, propyl, tert-butyl, $-CF_3$, $-OCH_3$,$-N(CH_3)_2$, -CN, -OH, $-CH_2OH$, $-NO_2$, $-CO_2CH_3$, $-CO_2H$, $-C(O)N(CH_3)_2$, phenyl, furan-2-yl, thiophen-2-yl, 1H-pyrazol-4-yl, cyclopropyl, pyrrolidin-1-yl, and morpholin-4-yl.

24. A chemical entity defined in claim 1, wherein R^2 is 4,6-dimethylpyrimidin-2-yl, 4,5-dimethylpyrimidin-2-yl,4,6-dimethoxypyrimidin-2-y1,4-phenyl-pyrimidin-2-yl, 4-furan-2-ylpyrimidin-2-yl, 4-methylpyrimidin-2-yl, 4-methoxypyrimidin-2-yl, 4-thiophen-2-ylpyrimidin-2-yl, N,N,6-trimethyl-pyrimidin-4-amine, 4-(trifluoromethyl)pyrimidin-2-yl, 4,5,6-trimethylpyrimidin-2-yl, 4-(trifluoromethyl)pyrimidine-5-carboxylate, 4-(trifluoromethyl)pyrimidine-5-carboxylic acid, 5-nitro-pyrimidin-2-yl, 6-methylpyrimidine-4-carboxylic acid, N,N-dimethyl-4-(trifluoromethyl)pyrimidine-5-carboxamide, N,N,6-trimethylpyrimidine-carboxamide, 6-methylpyrimidine-4-carbonitrile, 4,6-bis(trifluoromethyl)pyrimidin-2-yl, 6-methyl-pyrimidin-4-ol, 4-(furan-2-yl)-6-methylpyrimidin-2-yl, 5-fluoro-4-methylpyrimidin-2-yl, 5-fluoropyrimidin-2-yl, 4-methoxy-6-methylpyrimidin-2-yl, 4-ethyl-6-methylpyrimidin-2-yl, 4-isopropyl-6-methylpyrimidin-2-yl, 4-tert-butyl-6-methylpyrimidin-2-yl, 4-cyclopropyl-6-methylpyrimidin-2-yl, 4-methyl-6-morpholin-4-ylpyrimidin-2-yl, 5-chloro-4-methylpyrimidin-2-yl, 5-chloro-4,6-dimethylpyrimidin-2-yl, 5-fluoro-4,6-dimethylpyrimidin-2-yl, 5-trifluoromethylpyrimidin-2-yl, 4,6-bis[(^{2}H3)methyl](^{2}H)pyrimidin-2-yl, and 5-ethyl-4,6-dimethylpyrimidin-2-yl.

25. A chemical entity defined in claim 1, wherein R^2 is pyrimidine substituted with one or more members independently selected from the group consisting of -Cl, -F, $-CH_3$, $-CF_3$, $-N(CH_3)_2$, -D, and $-CD_3$.

26. A chemical entity defined in claim 1, wherein R^2 is 4,6-dimethylpyrimidin-2-yl, 4,5-dimethylpyrimidin-2-y1,4,6-dimethoxypyrimidin-2-yl, 4-methylpyrimidin-2-yl, 4-methoxypyrimidin-2-yl, N,N,6-trimethyl-pyrimidin-4-amine, 4-(trifluoromethyl)pyrimidin-2-yl, 4,5,6-trimethylpyrimidin-2-yl, 4,6-bis(trifluoromethyl)pyrimidin-2-yl, 6-methyl-pyrimidin-4-ol, 5-fluoro-4-methylpyrimidin-2-yl, 5-fluoropyrimidin-2-yl, 4-methoxy-6-methylpyrimidin-2-yl, 5-chloro-4-methylpyrimidin-2-yl, 5-chloro-4,6-dimethylpyrimidin-2-yl, 5-fluoro-4,6-dimethylpyrimidin-2-yl, 5-trifluoromethylpyrimidin-2-yl, and 4,6-bis[(^{2}H3)methyl](^{2}H)pyrimidin-2-yl.

27. A chemical entity defined in claim 1, wherein R^2 is pyrazine or triazine substituted with one or more $-CH_3$.

28. A chemical entity defined in claim 1, wherein R^2 is pyridine substituted with one or more members independently selected from the group consisting of -F, $-OCH_3$, $-OCH_2CH_3$, $-CH_3$, and $-CF_3$.

29. A chemical entity defined in claim 1, wherein R^2 is a member selected from the group consisting of benzooxazol-2-yl, 2-methylpyrimidin-4(3H)-one and 4-methyl-6,7-dihydro-5H-cyclopenta[d]pyrimidine and R^1 is phenyl, substituted in the *ortho* position with R^b, where R^b is 2H-1,2,3-triazol-2-yl, 2H-1,2,3-triazol-1-yl, 3-methyl-1,2,4-oxadiazol-5-yl or 2-pyrimidin-2-yl.

30. A chemical entity defined in claim 1, wherein R^2 is a member selected from the group consisting of quinoxalin-2-yl, 3-methylquinoxalin-2-yl, 6,7-difluoroquinoxalin-2-yl, 3-(trifluoromethyl)quinoxaline, 4-methylquinoline, and 6-fluoroquinazolin-2-yl and R^1 is phenyl substituted in the *ortho* position with R^b, where R^b is 2H-1,2,3-triazol-2-yl, 2H-1,2,3-triazol-1-yl, 3-methyl-1,2,4-oxadiazol-5-yl or 2-pyrimidin-2-yl.

31. A chemical entity defined in claim 7, wherein R^3 is biphenyl or 2-methoxyphenyl and R^4 is (5-trifluoromethyl)-pyridin-2-yl, (5-trifluoromethyl)-pyrimidin-2-yl, 4,6-dimethylpyrimidin-2-yl, or quinoxalin-2-yl.

32. A chemical entity defined in claim 1, wherein R^1 is a member selected from the group consisting of 2-(1 H-1,2,3-

triazol-1-yl)phenyl, 2-(2H-1,2,3-triazol-2-yl)phenyl, 2-fluoro-6-(2H-1,2,3-triazol-2-yl)phenyl, 2-methyl-6-(2H-1,2,3-triazol-2-yl)phenyl, 3-fluoro-2-(2H-1,2,3-triazol-2-yl)phenyl, 3-fluoro-2-(1H-1,2,3-triazol-1-yl)phenyl, 3-methoxy-2-(1H-1,2,3-triazol-1-yl)phenyl, 3-methoxy-2-(2H-1,2,3-triazol-2-yl)phenyl, 3-methyl-2-(2H-1,2,3-triazol-2-yl)phenyl, 3-methyl-2-(1H-1,2,3-triazol-1-yl)phenyl, 4-fluoro-2-(2H-1,2,3-triazol-2-yl)phenyl, 4-methoxy-2-(2H-1,2,3-triazol-2-yl)phenyl, 4-methoxy-2-(1H-1,2,3-triazol-2-yl)phenyl, 4,5-dimethoxy-2-[1,2,3]triazol-1-yl-phenyl, 4,5-dimethoxy-2-[1,2,3]triazol-2-yl-phenyl, 5-chloro-2-(2H-1,2,3-triazol-2-yl)phenyl, 5-fluoro-2-(2H-1,2,3-triazol-2-yl)phenyl, 5-methoxy-2-(2H-1,2,3-triazol-2-yl)phenyl, 5-methyl-2-(2H-1,2,3-triazol-2-yl)phenyl, 2-(1 H-1,2,4-triazol-1-yl)phenyl, 2-(1H-1,2,4-triazol-5-yl)phenyl, 2-(1-methyl)-1H-1,2,4-triazol-5-yl)phenyl, 2-(1-methyl-1H-1,2,4-triazol-3-yl)phenyl, 2-(4H-1,2,4-triazol-3-yl)phenyl, 2-(4H-1,2,4-triazol-4-yl)phenyl, 2-(3-methyl-1,2,4-oxadiazol-5-yl)phenyl, 3-fluoro-2-(3-methyl-1,2,4-oxadiazol-5-yl)phenyl, 2-fluoro-6-(3-methyl-1,2,4-oxadiazol-5-yl)phenyl, 4,5-difluoro-2-(4H-1,2,4-triazol-4-yl)phenyl), 2-fluoro-6-pyrimidin-2-ylphenyl, 2-(pyrimidin-2-yl)pyridin-3-yl, 3-fluoro-2-pyrimidin-2-ylphenyl, 4-fluoro-2-(pyrimidin-2-yl)phenyl, 4-methoxy-2-(pyrimidin-2-yl)phenyl, 5-fluoro-2-pyrimidin-2-ylphenyl, and 5-methyl-2-pyrimidin-2-ylphenyl and R^2 is a member selected from the group consisting of 4,6-dimethylpyrimidin-2-yl, 4,5-dimethylpyrimidin-2-y1,4,6-dimethoxypyrimidin-2-yl, 4-methylpyrimidin-2-yl, 4-methoxypyrimidin-2-yl, N,N,6-trimethyl-pyrimidin-4-amine, 4-(trifluoromethyl)pyrimidin-2-yl, 4,5,6-trimethylpyrimidin-2-yl, 4,6-bis(trifluoromethyl)pyrimidin-2-yl, 6-methyl-pyrimidin-4-ol, 5-fluoro-4-methylpyrimidin-2-yl, 5-fluoropyrimidin-2-yl, 4-methoxy-6-methylpyrimidin-2-yl, 5-chloro-4-methylpyrimidin-2-yl, 5-chloro-4,6-dimethylpyrimidin-2-yl, 5-fluoro-4,6-dimethylpyrimidin-2-yl, 5-trifluoromethylpyrimidin-2-yl, and 4,6-bis[(^{2}H3)methyl](^{2}H)pyrimidin-2-yl.

33. A chemical entity defined in claim 1, wherein R^1 is a member selected from the group consisting of 3-fluoro-2-(3-methyl-1,2,4-oxadiazol-5-yl)phenyl, 6-fluoro-2-(2H-1,2,3-triazol-2-yl)phenyl, 4-methoxy-2-(2H-1,2,3-triazol-2-yl)phenyl, and 3-[1,2,3]triazol-2-yl-pyridin-2-yl and R^2 is a member selected from the group consisting of 4,6-dimethylpyrimidin-2-yl, 5-fluoro-4,6-dimethylpyrimidin-2-yl, and 5-fluoro-4-methylpyrimidin-2-yl.

34. A chemical entity selected from the group consisting of:

4-[5-{[2-Fluoro-6-(2H-1,2,3-triazol-2-yl)phenyl]carbonyl}hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl]-6-methoxy-N,N-dimethylpyrimidin-2-amine;
N,N-Dimethyl-6-[5-{[2-(2H-1,2,3-triazol-2-yl)phenyl]carbonyl}hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl]-2-(trifluoromethyl)pyrimidin-4-amine;
6-[5-{[2-Fluoro-6-(2H-1,2,3-triazol-2-yl)phenyl]carbonyl}hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl]-N,N-dimethyl-2-(trifluoromethyl)pyrimidin-4-amine;
4-[5-{[5-Fluoro-2-(2H-1,2,3-triazol-2-yl)phenyl]carbonyl}hexahydropyrrolo[3,4-c]pyrrol-2(1 H)-yl]-6-methoxy-N,N-dimethylpyrimidin-2-amine;
4-Methoxy-N,N-dimethyl-6-[5-{[2-(2H-1,2,3-triazol-2-yl)phenyl]carbonyl}hexahydropyrrolo-[3,4-c]pyrrol-2(1H)-yl]pyrimidin-2-amine;
6-[5-{[4-Fluoro-2-(2H-1,2,3-triazol-2-yl)phenyl]carbonyl}hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl]-N,N-dimethyl-2-(trifluoromethyl)pyrimidin-4-amine;
4-[5-{[4-Fluoro-2-(2H-1,2,3-triazol-2-yl)phenyl]carbonyl}hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl]-6-methoxy-N,N-dimethylpyrimidin-2-amine;
2-(4,6-Dimethylpyrimidin-2-yl)-5-{[3-(1H-pyrrol-1-yl)thiophen-2-yl]carbonyl}octahydro-pyrrolo[3,4-c]pyrrole;
6-[5-{[5-Fluoro-2-(2H-1,2,3-triazol-2-yl)phenyl]carbonyl}hexahydropyrrolo[3,4-c]pyrrol-2(1 H)-yl]-N,N-dimethyl-2-(trifluoromethyl)pyrimidin-4-amine;
2-(4,6-Dimethylpyrimidin-2-yl)-5-[(1-phenyl-1H-pyrazol-5-yl)carbonyl]octahydropyrrolo[3,4-c]pyrrole;
8-{[5-(4,6-Dimethylpyrimidin-2-yl)hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl]carbonyl}-quinoline;
2-(4,6-Dimethylpyrimidin-2-yl)-5-[(3-phenylthiophen-2-yl)carbonyl]octahydropyrrolo[3,4-c]pyrrole;
2-(4,6-Dimethylpyrimidin-2-yl)-5-[(3-phenylfuran-2-yl)carbonyl]octahydropyrrolo[3,4-c]pyrrole;
2-(4,6-Dimethylpyrimidin-2-yl)-5-{[2-(1H-1,2,4-triazol-5-yl)phenyl]carbonyl} octahydro-pyrrolo[3,4-c]pyrrole;
2-(4,6-Dimethylpyrimidin-2-yl)-5-{[3-fluoro-2-(2H-1,2,3-triazol-2-yl)phenyl]carbonyl} octahydropyrrolo[3,4-c]pyrrole;
2-{5-[(2,4-Dimethoxyphenyl)carbonyl]hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl}-6-fluoro-1,3-benzothiazole;
2-{5-[(2,4-Dimethoxyphenyl)carbonyl]hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl}-1,3-benzothiazole;
2-[5-{[2-(1H-Pyrazol-1-yl)phenyl]carbonyl}hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl]quinoxaline;
2-{5-[(2-Thiophen-2-ylphenyl)carbonyl]hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl}quinoxaline;
2-{5-[(2-Methylnaphthalen-1-yl)carbonyl]hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl}quinoxaline;
2-{2,3-Dihydro-1,4-benzodioxin-5-ylcarbonyl)-5-(4-phenylpyrimidin-2-yl)octahydropyrrolo[3,4-c]pyrrole;
2-(4-Phenylpyrimidin-2-yl)-5-[(2-thiophen-2-ylphenyl)carbonyl]octahydro-pyrrolo[3,4-c]pyrrole;
2-(4-Phenylpyrimidin-2-yl)-5-{[2-(1H-pyrazol-1-yl)phenyl]carbonyl}octahydro-pyrrolo[3,4-c]pyrrole;

2-(4-Phenylpyrimidin-2-yl)-5-{[2-(1H-pyrrol-1-yl)phenyl]carbonyl}octahydro-pyrrolo[3,4-c]pyrrole;
2-[(2-Methylnaphthalen-1-yl)carbonyl]-5-(4-phenylpyrimidin-2-yl)octahydropyrrolo[3,4-c]pyrrole;
2-(5-Quinoxalin-2-yl-hexahydro-pyrrolo[3,4-c]pyrrole;-2-carbonyl)-benzonitrile;
2-[5-{[2-(1H-Pyrrol-1-yl)phenyl]carbonyl}hexahydropyrrolo[3,4-c]pyrrol-2(H)-yl]quinoxaline;
2-{5-[(4'-Fluorobiphenyl-2-yl)carbonyl]hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl}quinoxaline;
2-{5-[(3'-Fluorobiphenyl-2-yl)carbonyl]hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl}quinoxaline;
2-{5-[(2-Methylphenyl)carbonyl]hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl}quinoxaline;
2-(Biphenyl-2-ylcarbonyl)-5-(4-furan-2-ylpyrimidin-2-yl)octahydropyrrolo[3,4-c]pyrrole;
2-(4-Methylpyrimidin-2-yl)-5-[(2-thiophen-2-ylphenyl)carbonyl]octahydro-pyrrolo[3,4-c]pyrrole;
2-{5-[(2-Thiophen-2-ylphenyl)carbonyl]hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl)quinoline;
2-(4-Furan-2-ylpyrimidin-2-yl)-5-[(2-thiophen-2-ylphenyl)carbonyl]octahydro-pyrrolo[3,4-c]pyrrole;
2-{5-[(2-Ethylphenyl)carbonyl]hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl}quinoxaline;
2-[5-(1H-Indol-7-ylcarbonyl)hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl]quinoxaline;
2-[(2-Thiophen-2-ylphenyl)carbonyl]-5-(4-thiophen-2-ylpyrimidin-2-yl)octahydro-pyrrolo[3,4-c]pyrrole;
2-(Biphenyl-2-ylcarbonyl)-5-(4-thiophen-2-ylpyrimidin-2-yl)octahydropyrrolo[3,4-c]pyrrole;
[5-(4,6-Dimethyl-pyrimidin-2-yl)-hexahydro-pyrrolo[3,4-c]pyrrol-2-yl]-[2-(1-methyl-1H-imidazol-2-yl)-phenyl]-methanone;
2-[(2-Bromophenyl)carbonyl]-5-(4-phenylpyrimidin-2-yl)octahydropyrrolo[3,4-c]pyrrole;
2-{5-[(3'-Chlorobiphenyl-2-yl)carbonyl]hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl}quinoxaline;
2-{5-[(2-Bromophenyl)carbonyl]hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl}quinoxaline;
2-(4,6-Dimethylpyrimidin-2-yl)-5-[(2-thiophen-2-ylphenyl)carbonyl]octahydro-pyrrolo[3,4-c]pyrrole;
2-(Biphenyl-2-ylcarbonyl)-5-(4,6-dimethylpyrimidin-2-yl)octahydropyrrolo[3,4-c]pyrrole;
2-(4-Methoxypyrimidin-2-yl)-5-[(2-thiophen-2-ylphenyl)carbonyl]octahydro-pyrrolo[3,4-c]pyrrole;
6-Fluoro-2-{5-[(2-thiophen-2-ylphenyl)carbonyl]hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl}-1,3-benzothiazole
2-(4,6-Dimethylpyrimidin-2-yl)-5-[(2-methylnaphthalen-1-yl)carbonyl]octahydro-pyrrolo[3,4-c]pyrrole;
2-[(3'-Fluorobiphenyl-2-yl)carbonyl]-5-(4-methylpyrimidin-2-yl)octahydro-pyrrolo[3,4-c]pyrrole;
2-(4-Methoxypyrimidin-2-yl)-5-[(2-methylnaphthalen-1-yl)carbonyl]octahydro-pyrrolo[3,4-c]pyrrole;
2-[(2-Methylnaphthalen-1-yl)carbonyl]-5-(4-methylpyrimidin-2-yl)octahydro-pyrrolo[3,4-c]pyrrole;
2-[(3'-Fluorobiphenyl-2-yl)carbonyl]-5-(4-methoxypyrimidin-2-yl)octahydro-pyrrolo[3,4-c]pyrrole;
2-(4,6-Dimethylpyrimidin-2-yl)-5-[(3'-fluorobiphenyl-2-yl)carbonyl]octahydro-pyrrolo[3,4-c]pyrrole;
[5-(4,6-Dimethyl-pyrimidin-2-yl)-hexahydro-pyrrolo[3,4-c]pyrrol-2-yl]-(2-fluoro-phenyl)-methanone;
2-(4-Methoxypyrimidin-2-yl)-5-[(4'-methylbiphenyl-2-yl)carbonyl]octahydro-pyrrolo[3,4-c]pyrrole;
2-[(3'-Chlorobiphenyl-2-yl)carbonyl]-5-(4-methoxypyrimidin-2-yl)octahydro-pyrrolo[3,4-c]pyrrole;
2-[(2-Ethoxynaphthalen-1-yl)carbonyl]-5-(4-methoxypyrimidin-2-yl)octahydropyrrolo[3,4-c]pyrrole;
2-[(4-Fluoronaphthalen-1-yl)carbonyl]-5-(4-methoxypyrimidin-2-yl)octahydro-pyrrolo[3,4-c]pyrrole;
2-(4-Methoxypyrimidin-2-yl)-5-(naphthalen-1-ylcarbonyl)octahydropyrrolo[3,4-c]pyrrole;
2-[(2-Ethoxyphenyl)carbonyl]-5-(4-methoxypyrimidin-2-yl)octahydropyrrolo[3,4-c]pyrrole;
2-[(2-Methoxynaphthalen-1-yl)carbonyl]-5-(4-methoxypyrimidin-2-yl)octahydropyrrolo[3,4-c]pyrrole;
2-(Biphenyl-2-ylcarbonyl)-5-[4-(1H-pyrazol-4-yl)pyrimidin-2-yl]octahydro-pyrrolo[3,4-c]pyrrole;
2-[4-(1H-Pyrazol-4-yl)pyrimidin-2-yl]-5-[(2-thiophen-2-ylphenyl)carbonyl]octahydro-pyrrolo[3,4-c]pyrrole;
2-(3,6-Dimethylpyrazin-2-yl)-5-[(2-thiophen-2-ylphenyl)carbonyl]octahydro-pyrrolo[3,4-c]pyrrole;
2-(Biphenyl-2-ylcarbonyl)-5-(3,5-dimethylpyrazin-2-yl)octahydropyrrolo[3,4-c]pyrrole;
2-Methyl-3-{5-[(2-thiophen-2-ylphenyl)carbonyl]hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl}quinoxaline;
2-[5-(Biphenyl-2-ylcarbonyl)hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl]-3-methylquinoxaline;
2-(4,6-Dimethylpyrimidin-2-yl)-5-{[2-(1H-pyrazol-1-yl)phenyl]carbonyl}octahydro-pyrrolo[3,4-c]pyrrole;
2-(4,6-Dimethoxypyrimidin-2-yl)-5-[(2-fluoro-6-pyrimidin-2-ylphenyl)carbonyl] octahydropyrrolo[3,4-c]pyrrole;
2-(4,6-Dimethylpyrimidin-2-yl)-5-[(2-pyridin-2-ylphenyl)carbonyl]octahydro-pyrrolo[3,4-c]pyrrole;
2-(4,6-Dimethoxypyrimidin-2-yl)-5-[(2-pyridin-2-ylphenyl)carbonyl]octahydro-pyrrolo[3,4-c]pyrrole;
2-(4,6-Dimethoxypyrimidin-2-yl)-5-[(5-fluoro-2-pyrimidin-2-ylphenyl)carbonyl] octahydropyrrolo[3,4-c]pyrrole;
2-{4,6-Dimethoxypyrimidin-2-yl)-5-{[5-fluoro-2-(2H-1,2,3-triazol-2-yl)phenyl]carbonyl}octahydropyrrolo[3,4-c]pyrrole;
2-{4,6-Dimethylpyrimidin-2-yl)-5-[(2-fluoro-6-pyrimidin-2-ylphenyl)carbonyl]octahydropyrrolo[3,4-c]pyrrole;
2-(4,6-Dimethylpyrimidin-2-yl)-5-[(5-fluoro-2-pyrimidin-2-ylphenyl)carbonyl]octahydropyrrolo[3,4-c]pyrrole;
2-(4,6-Dimethylpyrimidin-2-yl)-5-{[5-fluoro-2-(2H-1,2,3-triazol-2-yl)phenyl]carbonyl}octahydropyrrolo[3,4-c]pyrrole;
2-(4,6-Dimethylpyrimidin-2-yl)-5-[(2-ethylphenyl)carbonyl]octahydropyrrolo[3,4-c]pyrrole;
2-(4,6-Dimethylpyrimidin-2-yl)-5-[(2-ethoxynaphthalen-1-yl)carbonyl]octahydro-pyrrolo[3,4-c]pyrrole;
2-(4,6-Dimethoxypyrimidin-2-yl)-5-{[2-(1H-pyrazol-1-yl)phenyl]carbonyl}octahydro-pyrrolo[3,4-c]pyrrole;

2-(4,6-Dimethylpyrimidin-2-yl)-5-[(5-phenyl-1,3-oxazol-4-yl)carbonyl]octahydro-pyrrolo[3,4-c]pyrrole;
2-(4,6-Dimethylpyrimidin-2-yl)-5-[(5-phenylisoxazol-4-yl)carbonyl]octahydro-pyrrolo[3,4-c]pyrrole;
[5-(2-Isopropyl-6-methyl-pyrimidin-4-yl)-hexahydro-pyrrolo[3,4-c]pyrrol-2-yl]-(2-[1,2,3]triazol-2-yl-phenyl)-methanone;
2-[(2-Bromophenyl)carbonyl]-5-(4,6-dimethylpyrimidin-2-yl)octahydropyrrolo[3,4-c]pyrrole;
2-(4,6-Dimethylpyrimidin-2-yl)-5-{[2-(2H-1,2,3-triazol-2-yl)phenyl]carbonyl} octahydropyrrolo[3,4-c]pyrrole;
2-(4,6-Dimethoxypyrimidin-2-yl)-5-{[2-(2H-1,2,3-triazol-2-yl)phenyl]carbonyl} octahydropyrrolo[3,4-c]pyrrole;
2-[5-{[2-(4H-1,2,4-Triazol-3-yl)phenyl]carbonyl}hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl]quinoxaline;
2-[5-{[2-(4H-1,2,4-Triazol-3-yl)phenyl]carbonyl}hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl]-1,3-benzoxazole;
2-(4-Methylpyrimidin-2-yl)-5-{[2-(4H-1,2,4-triazol-3-yl)phenyl]carbonyl}octahydro-pyrrolo[3,4-c]pyrrole;
2-(4,6-Dimethylpyrimidin-2-yl)-5-[(2-ethoxyphenyl)carbonyl]octahydropyrrolo[3,4-c]pyrrole;
2-(4,6-Dimethylpyrimidin-2-yl)-5-{[4-fluoro-2-(trifluoromethyl)phenyl]carbonyl} octahydropyrrolo[3,4-c]pyrrole;
2-(4,6-Dimethylpyrimidin-2-yl)-5-[(4-fluoronaphthalen-1-yl)carbonyl]octahydro-pyrrolo[3,4-c]pyrrole;
2-(4,6-Dimethylpyrimidin-2-yl)-5-{[2-(1-methylethyl)phenyl]carbonyl}octahydro-pyrrolo[3,4-c]pyrrole;
2-(4,6-Dimethylpyrimidin-2-yl)-5-[(3-methoxy-2-methylphenyl)carbonyl]octahydro-pyrrolo[3,4-c]pyrrole;
2-(4,6-Dimethylpyrimidin-2-yl)-5-(naphthalen-1-ylcarbonyl)octahydropyrrolo[3,4-c]pyrrole;
2-[5-{[2-(4H-1,2,4-Triazol-3-yl)phenyl]carbonyl}hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl]-3-(trifluoromethyl)quinoxaline;
2-Methyl-3-[5-{[2-(4H-1,2,4-triazol-3-yl)phenyl]carbonyl}hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl]quinoxaline;
2-[6-Methyl-2-(trifluoromethyl)pyrimidin-4-yl]-5-{[2-(4H-1,2,4-triazol-3-yl)phenyl]carbonyl}octahydropyrrolo[3,4-c]pyrrole;
2-[6-Methyl-2-(trifluoromethyl)pyrimidin-4-yl]-5-{[2-(2H-1,2,3-triazol-2-yl)phenyl]carbonyl}octahydropyrrolo[3,4-c]pyrrole;
2-{[2-Fluoro-6-(2H-1,2,3-triazol-2-yl)phenyl]carbonyl}-5-[6-methyl-2-(trifluoromethyl)pyrimidin-4-yl]octahydropyrrolo[3,4-c]pyrrole;
2-{[4-Fluoro-2-(2H-1,2,3-triazol-2-yl)phenyl]carbonyl}-5-[6-methyl-2-(trifluoromethyl)pyrimidin-4-yl]octahydropyrrolo[3,4-c]pyrrole;
2-(6-Methylpyrazin-2-yl)-5-{[5-methyl-2-(2H-1,2,3-triazol-2 yl)phenyl]carbonyl} octahydropyrrolo[3,4-c]pyrrole;
2-(3,6-Dimethylpyrazin-2-yl)-5-{[2-fluoro-6-(2H-1,2,3-triazol-2-yl)phenyl]carbonyl} octahydropyrrolo[3,4-c]pyrrole;
2-(4,6-Dimethylpyrimidin-2-yl)-5-[(5-methyl-2-pyrimidin-2-ylphenyl)carbonyl] octahydropyrrolo[3,4-c]pyrrole;
2-(3,6-Dimethylpyrazin-2-yl)-5-[(5-methyl-2-pyrimidin-2-ylphenyl)carbonyl] octahydropyrrolo[3,4-c]pyrrole;
2-(3,6-Dimethylpyrazin-2-yl)-5-{[4-fluoro-2-(2H-1,2,3-triazol-2-yl)phenyl]carbonyl} octahydropyrrolo[3,4-c]pyrrole;
2-(4,6-Dimethylpyrimidin-2-yl)-5-{[5-iodo-2-(2H-1,2,3-triazol-2-yl)phenyl] carbonyl}octahydropyrrolo[3,4-c]pyrrole;
4-[5-{[2-Fluoro-6-(2H-1,2,3-triazol-2-yl)phenyl]carbonyl}hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl]-N,N-dimethyl-6-(trifluoromethyl)pyrimidin-2-amine;
2-(4,6-Dimethylpyrimidin-2-yl)-5-{[2-fluoro-6-(2H-1,2,3-triazol-2-yl)phenyl] carbonyl}octahydropyrrolo[3,4-c]pyrrole;
N,N-Dimethyl-4-{5-[(5-methyl-2-pyrimidin-2-ylphenyl)carbonyl]hexahydropyrrolo [3,4-c]pyrrol-2(1H)-yl}-6-(trifluoromethyl)pyrimidin-2-amine;
4-{5-[(5-Fluoro-2-pyrimidin-2-ylphenyl)carbonyl]hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl}-N,N-dimethyl-6-(trifluoromethyl)pyrimidin-2-amine;
4-[5-{[5-Fluoro-2-(2H-1,2,3-triazol-2-yl)phenyl]carbonyl}hexahydropyrrolo[3,4-c]pyrrol-2(1 H)-yl]-N,N-dimethyl-6-(trifluoromethyl)pyrimidin-2-amine;
4-[5-{[4-Fluoro-2-(2H-1,2,3-triazol-2-yl)phenyl]carbonyl}hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl]-N,N-dimethyl-6-(trifluoromethyl)pyrimidin-2-amine;
2-[(5-Methyl-2-pyrimidin-2-ylphenyl)carbonyl]-5-[6-methyl-2-(trifluoromethyl) pyrimidin-4-yl]octahydropyrrolo[3,4-c]pyrrole;
2-[(5-Fluoro-2-pyrimidin-2-ylphenyl)carbonyl]-5-(4-phenylpyrimidin-2-yl)octahydropyrrolo[3,4-c]pyrrole;
2-{(5-Fluoro-2-(2H-1,2,3-triazol-2-yl)phenyl]carbonyl}-5-[6-methyl-2-(trifluoromethyl)pyrimidin-4-yl]octahydropyrrolo[3,4-c]pyrrole;
[5-(2,6-Dimethyl-pyrimidin-4-yl)-hexahydro-pyrrolo[3,4-c]pyrrol-2-yl]-(5-fluoro-2-[1,2,3]triazol-2-yl-phenyl)-methanone;
4-{5-[(2-Fluoro-6-pyrimidin-2-ylphenyl)carbonyl]hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl}-N,N-dimethyl-6-(trifluoromethyl)pyrimidin-2-amine
2-[(2-Fluoro-6-pyrimidin-2-ylphenyl)carbonyl]-5-[6-methyl-2-(trifluoromethyl) pyrimidin-4-yl]octahydropyrro-

lo[3,4-c]pyrrole;
2-(4,6-Dimethylpyrimidin-2-yl)-5-{[4-fluoro-2-(2H-1,2,3-triazol-2-yl)phenyl] carbonyl}octahydropyrrolo[3,4-c]pyrrole;
N,N,6-Trimethyl-2-[5-{(2-(2H-1,2,3-triazol-2-yl)phenyl]carbonyl}hexahydro pyrrolo[3,4-c]pyrrol-2(1H)-yl]pyrimidin-4-amine;
N,N,4-Trimethyl-6-[5-{[2-(2H-1,2,3-triazol-2-yl)phenyl]carbonyl}hexahydro pyrrolo[3,4-c]pyrrol-2(1H)-yl]pyrimidin-2-amine;
N,N-Dimethyl-4-[5-{[2-(2H-1,2,3-triazol-2-yl)phenyl]carbonyl}hexahydropyrrolo [3,4-c]pyrrol-2(1H)-yl]-6-(trifluoromethyl)pyrimidin-2-amine;
2-(2,6-Dimethylpyrimidin-4-yl)-5-{[2-(2H-1,2,3-triazol-2-yl)phenyl]carbonyl} octahydropyrrolo[3,4-c]pyrrole;
[5-(3,6-Dimethyl-pyrazin-2-yl)-hexahydro-pyrrolo[3,4-c]pyrrol-2-yl]-(5-methyl-2-[1,2,3]triazol-2-yl-phenyl)-methanone;
2-[5-{[5-Fluoro-2-(2H-1,2,3-triazol-2-yl)phenyl]carbonyl}hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl]-N,N,6-trimethylpyrimidin-4-amine;
2-(5-Methoxypyridin-2-yl)-5-[(2-thiophen-2-ylphenyl)carbonyl]octahydropyrrolo [3,4-c]pyrrole;
2-[(2-Ethoxynaphthalen-1-yl)carbonyl]-5-(4-phenylpyrimidin-2-yl)octahydro pyrrolo[3,4-c]pyrrole;
2-{[5-Methyl-2-(2H-1,2,3-triazol-2-yl)phenyl]carbonyl}-5-(4-phenylpyrimidin-2-yl)octahydropyrrolo[3,4-c]pyrrole;
(4-Chloro-2-[1,2,3]triazol-2-yl-phenyl)-[5-(4,6-dimethyl-pyrimidin-2-yl)-hexahydro-pyrrolo[3,4-c]pyrrol-2-yl]-methanone;
2-(4,6-Dimethoxypyrimidin-2-yl)-5-{[5-methyl-2-(2H-1,2,3-triazol-2-yl)phenyl] carbonyl}octahydropyrrolo[3,4-c]pyrrole;
2-(4,6-Dimethylpyrimidin-2-yl)-5-{[5-methyl-2-(2H-1,2,3-triazol-2-yl)phenyl] carbonyl}octahydropyrrolo[3,4-c]pyrrole;
2-(4-Phenylpyrimidin-2-yl)-5-{[2-(2H-1,2,3-triazol-2-yl)phenyl]carbonyl}octahydro pyrrolo[3,4-c]pyrrole;
2-(4,6-Dimethylpyrimidin-2-yl)-5-{[5-(2-fluorophenyl)-2-methyl-1,3-thiazol-4-yl]carbonyl}octahydropyrrolo[3,4-c]pyrrole;
2-[(2-Thiophen-2-ylphenyl)carbonyl]-5-[6-(trifluoromethyl)pyridin-2-yl]octahydro pyrrolo[3,4-c]pyrrole;
2-(6-Methylpyridin-2-yl)-5-[(2-thiophen-2-ylphenyl)carbonyl]octahydropyrrolo[3,4-c]pyrrole;
2-(4-Methylpyrimidin-2-yl)-5-{[2-(2H-1,2,3-triazol-2-yl)phenyl]carbonyl}octahydro pyrrolo[3,4-c]pyrrole;
2-(4-Methylpyridin-2-yl)-5-[(2-thiophen-2-ylphenyl)carbonyl]octahydropyrrolo[3,4-c]pyrrole;
2-(6-Methoxypyridin-2-yl)-5-[(2-thiophen-2-ylphenyl)carbonyl]octahydro pyrrolo[3,4-c]pyrrole;
2-(4,6-Dimethoxypyrimidin-2-yl)-5-[(2-thiophen-2-ylphenyl)carbonyl]octahydro pyrrolo[3,4-c]pyrrole;
2-{5-[(2-Thiophen-2-ylphenyl)carbonyl]hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl}-1,3-benzoxazole;
2-[(2-Thiophen-2-ylphenyl)carbonyl]-5-[3-(trifluoromethyl)pyridin-2-yl]octahydro pyrrolo[3,4-c]pyrrole;
[5-(4-Phenyl-pyrimidin-2-yl)-hexahydro-pyrrolo[3,4-c]pyrrol-2-yl]-[2-(4H-[1,2,4]triazol-3-yl)-phenyl]-methanone;
2-(4,6-Dimethoxypyrimidin-2-yl)-5-{[5-(2-fluorophenyl)-2-methyl-1,3-thiazol-4-yl]carbonyl}octahydropyrrolo[3,4-c]pyrrole;
2-(4-Thiophen-2-ylpyrimidin-2-yl)-5-{[2-(2H-1,2,3-triazol-2-yl)phenyl]carbonyl} octahydropyrrolo[3,4-c]pyrrole;
2-[5-{[2-(2H-1,2,3-Triazol-2-yl)phenyl]carbonyl}hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl]-1,3-benzoxazole;
2-{5-[(2-Ethoxynaphthalen-1-yl)carbonyl]hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl}quinoxaline;
2-{5-[(5-Fluoro-2-pyrimidin-2-ylphenyl)carbonyl]hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl}quinoxaline;
2-(6-Ethoxypyridin-2-yl)-5-{[2-(2H-1,2,3-triazol-2-yl)phenyl]carbonyl}octahydro pyrrolo[3,4-c]pyrrole;
2-[(5-Fluoro-2-pyrimidin-2-ylphenyl)carbonyl]-5-[4-(trifluoromethyl)pyrimidin-2-yl]octahydropyrrolo[3,4-c]pyrrole;
2-[5-{[2-(2H-1,2,3-Triazol-2-yl)phenyl]carbonyl}hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl]quinoxaline
2-[(5-Fluoro-2-pyrimidin-2-ylphenyl)carbonyl]-5-(4-methoxypyrimidin-2-yl)octahydropyrrolo[3,4-c]pyrrole;
2-(4-Furan-2-ylpyrimidin-2-yl)-5-{[2-(2H-1,2,3-triazol-2-yl)phenyl]carbonyl} octahydropyrrolo[3,4-c]pyrrole;
2-(5-Fluoropyridin-2-yl)-5-{[2-(2H-1,2,3-triazol-2-yl)phenyl]carbonyl}octahydro pyrrolo[3,4-c]pyrrole;
2-{[2-(2H-1,2,3-Triazol-2-yl)phenyl]carbonyl}-5-[4-(trifluoromethyl)pyrimidin-2-yl]octahydropyrrolo[3,4-c]pyrrole;
2-(4-Methoxypyrimidin-2-yl)-5-{[2-(1H-1,2,4-triazol-5-yl)phenyl]carbonyl} octahydropyrrolo[3,4-c]pyrrole;
2-(3,6-Dimethylpyrazin-2-yl)-5-{[2-(2H-1,2,3-triazol-2-yl)phenyl]carbonyl}octa hydropyrrolo[3,4-c]pyrrole;
2-(4-Methoxypyrimidin-2-yl)-5-{[2-(2H-1, 2,3-triazol-2-yl)phenyl]carbonyl}octa hydropyrrolo[3,4-c]pyrrole;
2-{[5-Chloro-2-(2H-1,2,3-triazol-2-yl)phenyl]carbonyl}-5-(4,6-dimethylpyrimidin-2-yl)octahydropyrrolo[3,4-c]pyrrole;
2-{[4-Fluoro-2-(2H-1,2,3-triazol-2-yl)phenyl]carbonyl}-5-(6-methylpyrazin-2-yl)octahydropyrrolo[3,4-c]pyrrole;

2-{[4-Fluoro-2-(2H-1,2,3-triazol-2-yl)phenyl]carbonyl}-5-(4-methoxypyrimidin-2-yl)octahydropyrrolo[3,4-c]pyrrole;
2-(4,6-Dimethoxypyrimidin-2-yl)-5-{[4-fluoro-2-(2H-1,2,3-triazol-2-yl)phenyl] carbonyl}octahydropyrrolo[3,4-c]pyrrole;
[5-(4,6-Dimethyl-pyrimidin-2-yl)-hexahydro-pyrrolo[3,4-c]pyrrol-2-yl]-(5-methoxy-2-[1,2,3]triazol-2-yl-phenyl)-methanone;
(2-Fluoro-6-[1,2,3]triazol-2-yl-phenyl)-[5-(4-methoxy-pyrimidin-2-yl)-hexahydro-pyrrolo[3,4-c]pyrrol-2-yl]-methanone;
6-Chloro-2-{5-[(2,4-dimethoxyphenyl)carbonyl]hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl}-1,3-benzothiazole;
2-(Biphenyl-2-ylcarbonyl)-5-(4-phenylpyrimidin-2-yl)octahydropyrrolo[3,4-c]pyrrole;
2-{5-[(2,6-Dimethoxyphenyl)carbonyl]hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl}quinoxaline;
2-[(2,6-Dimethoxyphenyl)carbonyl]-5-(4-phenylpyrimidin-2-yl)octahydropyrrolo [3,4-c]pyrrole;
2-[(2,4-Dimethoxyphenyl)carbonyl]-5-(4-phenylpyrimidin-2-yl)octahydropyrrolo [3,4-c]pyrrole;
2-[5-(Biphenyl-2-ylcarbonyl)hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl]quinoxaline;
2-[5-(Biphenyl-2-ylcarbonyl)hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl]-1,3-benzothiazole;
2-{5-[(2,4-Dimethoxyphenyl)carbonyl]hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl}-4-methylquinoline;
2-{5-[(2,4-Dimethoxyphenyl)carbonyl]hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl}-6-methoxy-1,3-benzothiazole;
2-{5-[(2,4-Dimethoxyphenyl)carbonyl]hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl}-6-methyl-1,3-benzothiazole;
2-(Biphenyl-2-ylcarbonyl)-5-(6-methylpyridin-2-yl)octahydropyrrolo[3,4-c]pyrrole;
2-(Biphenyl-2-ylcarbonyl)-5-(4-methylpyrimidin-2-yl)octahydropyrrolo[3,4-c]pyrrole;
2-[5-(Biphenyl-2-ylcarbonyl)hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl]quinoline;
2-[5-(Biphenyl-2-ylcarbonyl)hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl]-6-fluoro-1,3-benzothiazole;
2-(Biphenyl-2-ylcarbonyl)-5-(4-methoxypyrimidin-2-yl)octahydropyrrolo[3,4-c]pyrrole;
2-[5-(Biphenyl-2-ylcarbonyl)hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl]-4-methylquinoline;
(2,4-Dimethoxy-phenyl)-[5-(4-methoxy-pyrimidin-2-yl)-hexahydro-pyrrolo[3,4-c]pyrrol-2-yl]-methanone;
(5-Benzooxazol-2-yl-hexahydro-pyrrolo[3,4-c]pyrrol-2-yl)-(2-methoxy-phenyl)-methanone;
(2-Pyridin-3-yl-phenyl)-(5-quinoxalin-2-yl-hexahydro-pyrrolo[3,4-c]pyrrol-2-yl)-methanone;
[5-(4,6-Dimethyl-pyrimidin-2-yl)-hexahydro-pyrrolo[3,4-c]pyrrol-2-yl]-[2-(1H-imidazol-2-yl)-phenyl]-methanone;
(5-Benzooxazol-2-yl-hexahydro-pyrrolo[3,4-c]pyrrol-2-yl)-(2,4-dimethoxy-phenyl)-methanone;
(5-Benzooxazol-2-yl-hexahydro-pyrrolo[3,4-c]pyrrol-2-yl)-biphenyl-2-yl-methanone;
(2,4-Dimethoxy-phenyl)-[5-(6-methyl-pyridin-2-yl)-hexahydro-pyrrolo[3,4-c]pyrrol-2-yl]-methanone;
(2,4-Dimethoxy-phenyl)-[5-(4-methyl-pyrimidin-2-yl)-hexahydro-pyrrolo[3,4-c]pyrrol-2-yl]-methanone;
Biphenyl-2-yl-[5-(6-methoxy-benzothiazol-2-yl)-hexahydro-pyrrolo[3,4-c]pyrrol-2-yl]-methanone;
Biphenyl-2-yl-[5-(6-methyl-benzothiazol-2-yl)-hexahydro-pyrrolo[3,4-c]pyrrol-2-yl]-methanone;
[5-(6-Chloro-benzothiazol-2-yl)-hexahydro-pyrrolo[3,4-c]pyrrol-2-yl]-(2,6-dimethoxy-phenyl)-methanone;
Biphenyl-2-yl-[5-(6-chloro-benzothiazol-2-yl)-hexahydro-pyrrolo[3,4-c]pyrrol-2-yl]-methanone;
(2,4-Dimethoxy-phenyl)-(5-quinoxalin-2-yl-hexahydro-pyrrolo[3,4-c]pyrrol-2-yl)-methanone;
(5-Benzooxazol-2-yl-hexahydro-pyrrolo[3,4-c]pyrrol-2-yl)-(2,6-dimethoxy-phenyl)-methanone;
(4'-Methyl-biphenyl-2-yl)-(5-quinoxalin-2-yl-hexahydro-pyrrolo[3,4-c]pyrrol-2-yl)-methanone;
(5-Quinoxalin-2-yl-hexahydro-pyrrolo[3,4-c]pyrrol-2-yl)-(4'-trifluoromethyl-biphenyl-2-yl)-methanone;
(4'-Methyl-biphenyl-2-yl)-[5-(4-phenyl-pyrimidin-2-yl)-hexahydro-pyrrolo[3,4-c]pyrrol-2-yl]-methanone;
[5-(4-Phenyl-pyrimidin-2-yl)-hexahydro-pyrrolo[3,4-c]pyrrol-2-yl]-(4'-trifluoromethyl-biphenyl-2-yl)-methanone;
(4-Methoxy-2-methyl-phenyl)-(5-quinoxalin-2-yl-hexahydro-pyrrolo[3,4-c]pyrrol-2-yl)-methanone;
(3'-Chloro-biphenyl-2-yl)-[5-(4-phenyl-pyrimidin-2-yl)-hexahydro-pyrrolo[3,4-c]pyrrol-2-yl]-methanone;
(2-Methoxy-phenyl)-[5-(4-methoxy-pyrimidin-2-yl)-hexahydro-pyrrolo[3,4-c]pyrrol-2-yl]-methanone;
(2-Methoxy-phenyl)-[5-(4-methyl-pyrimidin-2-yl)-hexahydro-pyrrolo[3,4-c]pyrrol-2-yl]-methanone;
[5-(4,6-Dimethyl-pyrimidin-2-yl)-hexahydro-pyrrolo[3,4-c]pyrrol-2-yl]-(2-methoxy-phenyl)-methanone;
2-[5-(4,6-Dimethyl-pyrimidin-2-yl)-hexahydro-pyrrolo[3,4-c]pyrrole;-2-carbonyl]-benzonitrile;
Cinnolin-4-yl-[5-(4,6-dimethyl-pyrimidin-2-yl)-hexahydro-pyrrolo[3,4-c]pyrrol-2-yl]-methanone;
(5-Fluoro-2-pyrimidin-2-yl-phenyl)-[5-(6-methyl-2-trifluoromethyl-pyrimidin-4-yl)-hexahydro-pyrrolo[3,4-c]pyrrol-2-yl]-methanone;
[5-(4,6-Dimethyl-pyrimidin-2-yl)-hexahydro-pyrrolo[3,4-c]pyrrol-2-yl]-(2-[1,2,3]triazol-1-yl-phenyl)-methanone;
[5-(4,6-Dimethyl-pyrimidin-2-yl)-hexahydro-pyrrolo[3,4-c]pyrrol-2-yl]-(2-[1,2,4]triazol-1-yl-phenyl)-methanone;
[5-(4,6-Dimethoxy-pyrimidin-2-yl)-hexahydro-pyrrolo[3,4-c]pyrrol-2-yl]-(3-phenyl-pyridin-2-yl)-methanone;
[5-(4,6-Dimethyl-pyrimidin-2-yl)-hexahydro-pyrrolo[3,4-c]pyrrol-2-yl]-(3-phenyl-pyridin-2-yl)-methanone;
[5-(6-Methyl-2-propyl-pyrimidin-4-yl)-hexahydro-pyrrolo[3,4-c]pyrrol-2-yl]-(2-[1,2,3]triazol-2-yl-phenyl)-methanone;
[5-(2-Methyl-pyrimidin-4-yl)-hexahydro-pyrrolo[3,4-c]pyrrol-2-yl]-(2-[1,2,3]triazol-2-yl-phenyl)-methanone;

[5-(6-Methyl-pyrazin-2-yl)-hexahydro-pyrrolo[3,4-c]pyrrol-2-yl]-(2-[1,2,3]triazol-2-yl-phenyl)-methanone;
[5-(3,6-Dimethyl-pyrazin-2-yl)-hexahydro-pyrrolo[3,4-c]pyrrol-2-yl]-(5-fluoro-2-pyrimidin-2-yl-phenyl)-methanone;
[5-(3,6-Dimethyl-pyrazin-2-yl)-hexahydro-pyrrolo[3,4-c]pyrrol-2-yl]-[2-(2H-[1,2,4]triazol-3-yl)-phenyl]-methanone;
[5-(2-Pyrrolidin-1-yl-6-trifluoromethyl-pyrimidin-4-yl)-hexahydro-pyrrolo[3,4-c]pyrrol-2-yl]-(2-[1,2,3]triazol-2-yl-phenyl)-methanone;
2-(2,6-Dimethylpyrimidin-4-yl)-5-{[5-fluoro-2-(2H-1,2,3-triazol-2-yl)phenyl]carbonyl}octahydropyrrolo[3,4-c]pyrrole;
[5-(4,6-Dimethyl-pyrimidin-2-yl)-hexahydro-pyrrolo[3,4-c]pyrrol-2-yl]-(2-nitro-6-[1,2,3]triazol-2-yl-phenyl)-methanone;
[5-(4,6-Dimethyl-pyrimidin-2-yl)-hexahydro-pyrrolo[3,4-c]pyrrol-2-yl]-(2-furan-2-yl-phenyl)-methanone;
[5-(4,6-Dimethyl-pyrimidin-2-yl)-hexahydro-pyrrolo[3,4-c]pyrrol-2-yl]-(2-methyl-5-phenyl-thiazol-4-yl)-methanone;
2-[(2,3-Dimethylphenyl)carbonyl]-5-(4,6-dimethylpyrimidin-2-yl)octahydropyrrolo[3,4-c]pyrrole;
2-(4,6-Dimethylpyrimidin-2-yl)-5-[(3-fluoro-2-methylphenyl)carbonyl]octahydropyrrolo[3,4-c]pyrrole;
2-(4,6-Dimethylpyrimidin-2-yl)-5-{[5-fluoro-2-(trifluoromethyl)phenyl]carbonyl}octahydropyrrolo[3,4-c]pyrrole;
2-[(4-Chloro-2-methoxyphenyl)carbonyl]-5-(4,6-dimethylpyrimidin-2-yl)octahydropyrrolo[3,4-c]pyrrole;
2-[(5-Chloro-2-methylphenyl)carbonyl]-5-(4,6-dimethylpyrimidin-2-yl)octahydropyrrolo[3,4-c]pyrrole;
2-[(2,5-Dimethylphenyl)carbonyl]-5-(4,6-dimethylpyrimidin-2-yl)octahydropyrrolo[3,4-c]pyrrole;
2-[(2,6-Dimethylphenyl)carbonyl]-5-(4,6-dimethylpyrimidin-2-yl)octahydropyrrolo[3,4-c]pyrrole;
2-(4,6-Dimethylpyrimidin-2-yl)-5-[(5-fluoro-2-methylphenyl)carbonyl]octahydropyrrolo[3,4-c]pyrrole;
2-[(2,4-Dimethylphenyl)carbonyl]-5-(4,6-dimethylpyrimidin-2-yl)octahydropyrrolo[3,4-c]pyrrole;
2-[(2,5-Diethoxyphenyl)carbonyl]-5-(4,6-dimethylpyrimidin-2-yl)octahydropyrrolo[3,4-c]pyrrole;
2-[(2,6-Diethoxyphenyl)carbonyl]-5-(4,6-dimethylpyrimidin-2-yl)octahydropyrrolo[3,4-c]pyrrole;
2-[(2-Chloro-6-methylphenyl)carbonyl]-5-(4,6-dimethylpyrimidin-2-yl)octahydropyrrolo[3,4-c]pyrrole;
(5-(4,6-Dimethylpyrimidin-2-yl)hexahydropyrrolo[3,4-c]pyrrol-2(1 H)-yl)(4-fluoro-2-(pyrimidin-2-yl)phenyl)methanone;
(5-(4,6-dimethylpyrimidin-2-yl)hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl)(3-fluoro-2-iodophenyl)methanone;
2-(4,6-Dimethylpyrimidin-2-yl)-5-{[2-(trifluoromethyl)pyridin-3-yl]carbonyl}octahydropyrrolo[3,4-c]pyrrole;
(2-Bromopyridin-3-yl)(5-(4,6-dimethylpyrimidin-2-yl)hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl)methanone;
(5-(4,6-Dimethylpyrimidin-2-yl)hexahydropyrrolo[3,4-c]pyrrol-2(1 H)-yl)(2-(pyrimidin-2-yl)pyridin-3-yl)methanone;
(5-(4,6-Dimethylpyrimidin-2-yl)hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl)(2-(1-(tetrahydro-2H-pyran-2-yl)-1 H-pyrazol-5-yl)pyridin-3-yl)methanone;
(2-(1H-Pyrazol-5-yl)pyridin-3-yl)(5-(4,6-dimethylpyrimidin-2-yl)hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl)methanone;
(2-(2H-1,2,3-Triazol-2-yl)pyridin-3-yl)(5-(4,6-dimethylpyrimidin-2-yl)hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl)methanone;
(3-Fluoro-2-(pyrimidin-2-yl)phenyl)(5-(4,5,6-trimethylpyrimidin-2-yl)hexahydropyrrolo[3,4-c]pyrrol-2(1 H)-yl)methanone;
(3-Fluoro-2-(2H-1,2,3-triazol-2-yl)phenyl)(5-(4,5,6-trimethylpyrimidin-2-yl)hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl)methanone;
(5-Methoxy-2-(2H-1,2,3-triazol-2-yl)phenyl)(5-(4,5,6-trimethylpyrimidin-2-yl)hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl)methanone;
(3-Fluoro-2-(2H-1,2,3-triazol-2-yl)phenyl)(5-(6-fluoroquinazolin-2-yl)hexahydropyrrolo[3,4-c]pyrrol-2(1 H)-yl)methanone;
(3-Fluoro-2-(pyrimidin-2-yl)phenyl)(5-(6-fluoroquinazolin-2-yl)hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl)methanone;
(5-(6,7-Difluoroquinoxalin-2-yl)hexahydropyrrolo[3,4-c]pyrrol-2(1 H)-yl)(3-fluoro-2-(2H-1,2,3-triazol-2-yl)phenyl)methanone;
(5-(6,7-Difluoroquinoxalin-2-yl)hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl)(5-methoxy-2-(2H-1,2,3-triazol-2-yl)phenyl)methanone;
(5-(6,7-Difluoroquinoxalin-2-yl)hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl)(2-fluoro-6-(2H-1,2,3-triazol-2-yl)phenyl)methanone;
(2-Bromo-3-fluorophenyl)(5-(6-fluoroquinazolin-2-yl)hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl)methanone;
(5-(4,6-dimethylpyrimidin-2-yl)hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl)(4-fluoro-2-(5-methylpyridin-2-yl)phenyl)methanone;

(2-Bromopyridin-3-yl)(5-(4,5,6-trimethylpyrimidin-2-yl)hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl)methanone;
(2-(1-(Tetrahydro-2H-pyran-2-yl)-1H-pyrazol-5-yl)pyridin-3-yl)(5-(4,5,6-trimethylpyrimidin-2-yl)hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl)methanone;
(2-(1H-Pyrazol-5-yl)pyridin-3-yl)(5-(4,5,6-trimethylpyrimidin-2-yl)hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl)methanone;
6-[5-{[2-Fluoro-6-(2H-1,2,3-triazol-2-yl)phenyl]carbonyl}hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl]-2-methylpyrimidin-4(3H)-one;
2-(2,6-Dimethylpyrimidin-4-yl)-5-{[5-(4-fluorophenyl)-2-methyl-1,3-thiazol-4-yl]carbonyl}octahydropyrrolo[3,4-c]pyrrole;
2-(4,6-Dimethylpyrimidin-2-yl)-5-{[5-(4-fluorophenyl)-2-methyl-1,3-thiazol-4-yl]carbonyl}octahydropyrrolo[3,4-c]pyrrole;
6-[5-{[5-(4-Fluorophenyl)-2-methyl-1,3-thiazol-4-yl]carbonyl}hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl]-2-methylpyrimidin-4(3H)-one;
6-{5-[(5-Fluoro-2-pyrimidin-2-ylphenyl)carbonyl]hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl}-2-methylpyrimidin-4(3H)-one;
(5-(4,6-Dimethylpyrimidin-2-yl)hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl)(4-fluoro-2-(2H-1,2,3-triazol-2-yl)phenyl)methanone;
(5-(4,6-Dimethoxypyrimidin-2-yl)hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl)(2-fluoro-6-(2H-1,2,3-triazol-2-yl)phenyl)methanone;
(5-(4,6-Dimethylpyrimidin-2-yl)hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl)(2-methyl-6-(2H-1,2,3-triazol-2-yl)phenyl)methanone;
(5-(4,6-Dimethylpyrimidin-2-yl)hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl)(3-methyl-2-(2H-1,2,3-triazol-2-yl)phenyl)methanone;
(2-Fluoro-6-(2H-1,2,3-triazol-2-yl)phenyl)(5-(5-nitropyrimidin-2-yl)hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl)methanone;
Methyl 2-(5-(2-fluoro-6-(2H-1,2,3-triazol-2-yl)benzoyl)hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl)-4-(trifluoromethyl)pyrimidine-5-carboxylate;
2-(5-(2-Fluoro-6-(2H-1,2,3-triazol-2-yl)benzoyl)hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl)-4-(trifluoromethyl)pyrimidine-5-carboxylic acid;
(2-(4H-1,2,4-Triazol-4-yl)phenyl)(5-(4,6-dimethylpyrimidin-2-yl)hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl)methanone;
2-(5-(2-Fluoro-6-(2H-1,2,3-triazol-2-yl)benzoyl)hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl)-6-methylpyrimidine-4-carboxylic acid;
(4,5-Difluoro-2-(4H-1,2,4-triazol-4-yl)phenyl)(5-(4,6-dimethylpyrimidin-2-yl)hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl)methanone;
(5-(4,6-Dimethylpyrimidin-2-yl)hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl)(3-methyl-2-(1H-1,2,3-triazol-1-yl)phenyl)methanone;
2-(5-(2-Fluoro-6-(2H-1,2,3-triazol-2-yl)benzoyl)hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl)-N,N,6-trimethylpyrimidine-4-carboxamide;
2-(5-(2-Fluoro-6-(2H-1,2,3-triazol-2-yl)benzoyl)hexahydropyrrolo[3,4-c]pyrrol-2(1 H)-yl)-N,N-dimethyl-4-(trifluoromethyl)pyrimidine-5-carboxamide;
(5-(4,6-Dimethylpyrimidin-2-yl)hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl)(mesityl)methanone;
(2,3-Difluorophenyl)(5-(4,6-dimethylpyrimidin-2-yl)hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl)methanone;
(5-(4,6-Dimethylpyrimidin-2-yl)hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl)(4-methoxy-2-(pyrimidin-2-yl)phenyl)methanone;
(2,3-Dimethoxyphenyl)(5-(4,6-dimethylpyrimidin-2-yl)hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl)methanone;
(5-(4,6-Dimethylpyrimidin-2-yl)hexahydropyrrolo[3,4-c]pyrrol-2(1 H)-yl)(2-(trifluoromethoxy)phenyl)methanone;
[5-(4,6-Dimethyl-pyrimidin-2-yl)-hexahydro-pyrrolo[3,4-c]pyrrol-2-yl]-(6-methyl-2-[1,2,3]triazol-2-yl-pyridin-3-yl)-methanone;
(5-(4,6-Dimethylpyrimidin-2-yl)hexahydropyrrolo[3,4-c]pyrrol-2(1 H)-yl)(2-methoxy-4-methylphenyl)methanone;
(5-(4,6-Dimethylpyrimidin-2-yl)hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl)(4-methoxy-2-methylphenyl)methanone;
(2,6-Difluorophenyl)(5-(4,6-dimethylpyrimidin-2-yl)hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl)methanone;
2-[5-{[2-Fluoro-6-(2H-1,2,3-triazol-2-yl)phenyl]carbonyl}hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl]-6-methylpyrimidine-4-carbonitrile;
2-[4,6-Bis(trifluoromethyl)pyrimidin-2-yl]-5-{[2-fluoro-6-(2H-1,2,3-triazol-2-yl)phenyl]carbonyl}octahydropyrro-

lo[3,4-c]pyrrole;
2-[5-{[2-Fluoro-6-(2H-1,2,3-triazol-2-yl)phenyl]carbonyl}hexahydropyrrolo[3,4-c]pyrrol-2(1 H)-yl]-6-methylpyrimidin-4-ol;
(2-Fluoro-6-(2H-1,2,3-triazol-2-yl)phenyl)(5-(4-(furan-2-yl)-6-methylpyrimidin-2-yl)hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl)methanone;
2-(4,6-Dimethylpyrimidin-2-yl)-5-[(3-fluoro-2-pyrimidin-2-ylphenyl)carbonyl]octahydropyrrolo[3,4-c]pyrrole;
2-(4,6-Dimethylpyrimidin-2-yl)-5-{[3-fluoro-2-(1H-pyrazol-5-yl)phenyl]carbonyl}octahydropyrrolo[3,4-c]pyrrole;
2-(4,6-Dimethylpyrimidin-2-yl)-5-{[3-methoxy-2-(2H-1,2,3-triazol-2-yl)phenyl]carbonyl}octahydropyrrolo[3,4-c]pyrrole;
2-(4,6-Dimethylpyrimidin-2-yl)-5-{[3-methoxy-2-(1H-1,2,3-triazol-1-yl)phenyl]carbonyl}octahydropyrrolo[3,4-c]pyrrole;
2-(4,6-Dimethylpyrimidin-2-yl)-5-{[3-fluoro-2-(1H-1,2,3-triazol-1-yl)phenyl]carbonyl}octahydropyrrolo[3,4-c]pyrrole;
2-(4,6-Dimethylpyrimidin-2-yl)-5-{[4-methoxy-2-(2H-1,2,3-triazol-2-yl)phenyl]carbonyl}octahydropyrrolo[3,4-c]pyrrole;
2-(4,6-Dimethylpyrimidin-2-yl)-5-{[4-methoxy-2-(1H-1,2,3-triazol-2-yl)phenyl]carbonyl}octahydropyrrolo[3,4-c]pyrrole;
2-(5-Fluoro-4-methylpyrimidin-2-yl)-5-{[2-(2H-1,2,3-triazol-2-yl)phenyl]carbonyl}octahydropyrrolo[3,4-c]pyrrole;
2-(2-Chloro-5-fluoropyrimidin-4-yl)-5-{[2-(2H-1,2,3-triazol-2-yl)phenyl]carbonyl}octahydropyrrolo[3,4-c]pyrrole;
2-(5-Fluoropyrimidin-2-yl)-5-{[2-fluoro-6-(2H-1,2,3-triazol-2-yl)phenyl]carbonyl}octahydropyrrolo[3,4-c]pyrrole;
2-(5-Fluoro-4-methylpyrimidin-2-yl)-5-{[2-fluoro-6-(2H-1,2,3-triazol-2-yl)phenyl]carbonyl}octahydropyrrolo[3,4-c]pyrrole;
2-{[2-Fluoro-6-(2H-1,2,3-triazol-2-yl)phenyl]carbonyl}-5-(4,5,6-trimethylpyrimidin-2-yl)octahydropyrrolo[3,4-c]pyrrole;
2-(4,5-Dimethylpyrimidin-2-yl)-5-{[2-fluoro-6-(2H-1,2,3-triazol-2-yl)phenyl]carbonyl}octahydropyrrolo[3,4-c]pyrrole;
2-{[2-Fluoro-6-(2H-1,2,3-triazol-2-yl)phenyl]carbonyl}-5-(4-methoxy-6-methylpyrimidin-2-yl)octahydropyrrolo[3,4-c]pyrrole;
2-(4-Ethyl-6-methylpyrimidin-2-yl)-5-{[2-fluoro-6-(2H-1,2,3-triazol-2-yl)phenyl]carbonyl}octahydropyrrolo[3,4-c]pyrrole;
2-{[2-Fluoro-6-(2H-1,2,3-triazol-2-yl)phenyl]carbonyl}-5-[4-methyl-6-(1-methylethyl)pyrimidin-2-yl]octahydropyrrolo[3,4-c]pyrrole;
2-[4-Methyl-6-(1-methylethyl)pyrimidin-2-yl]-5-{[2-(2H-1,2,3-triazol-2-yl)phenyl]carbonyl}octahydropyrrolo[3,4-c]pyrrole;
2-{[5-(1-Methylethyl)-2-(2H-1,2,3-triazol-2-yl)phenyl]carbonyl}-5-[4-methyl-6-(1-methylethyl)pyrimidin-2-yl]octahydropyrrolo[3,4-c]pyrrole;
2-(4-tert-Butyl-6-methylpyrimidin-2-yl)-5-{[2-fluoro-6-(2H-1,2,3-triazol-2-yl)phenyl]carbonyl}octahydropyrrolo[3,4-c]pyrrole;
2-(4-Cyclopropyl-6-methylpyrimidin-2-yl)-5-{[2-fluoro-6-(2H-1,2,3-triazol-2-yl)phenyl]carbonyl}octahydropyrrolo[3,4-c]pyrrole;
2-{[2-Fluoro-6-(2H-1,2,3-triazol-2-yl)phenyl]carbonyl}-5-(4-methyl-1,3,5-triazin-2-yl)octahydropyrrolo[3,4-c]pyrrole;
2-{[2-Fluoro-6-(2H-1,2,3-triazol-2-yl)phenyl]carbonyl}-5-(4-methyl-6-morpholin-4-ylpyrimidin-2-yl)octahydropyrrolo[3,4-c]pyrrole;
2-{[2-(4H-1,2,4-Triazol-3-yl)phenyl]carbonyl}-5-(4,5,6-trimethylpyrimidin-2-yl)octahydropyrrolo[3,4-c]pyrrole;
2-(4,6-Dimethylpyrimidin-2-yl)-5-{[2-(3-methyl-1,2,4-oxadiazol-5-yl)phenyl]carbonyl}octahydropyrrolo[3,4-c]pyrrole;
2-(4,6-Dimethylpyrimidin-2-yl)-5-{[2-(1-methyl-1H-1,2,4-triazol-5-yl)phenyl]carbonyl}octahydropyrrolo[3,4-c]pyrrole;
2-(4,6-Dimethylpyrimidin-2-yl)-5-{[2-(1-methyl-1H-1,2,4-triazol-3-yl)phenyl]carbonyl}octahydropyrrolo[3,4-c]pyrrole;
2-{[2-(3-Methyl-1,2,4-oxadiazol-5-yl)phenyl]carbonyl}-5-(4,5,6-trimethylpyrimidin-2-yl)octahydropyrrolo[3,4-c]pyrrole;
2-(5-Fluoro-4-methylpyrimidin-2-yl)-5-{[2-(3-methyl-1,2,4-oxadiazol-5-yl)phenyl]carbonyl}octahydropyrrolo[3,4-c]pyrrole;
2-{[2-(1-Methyl-1H-1,2,4-triazol-3-yl)phenyl]carbonyl}-5-(4,5,6-trimethylpyrimidin-2-yl)octahydropyrrolo[3,4-c]pyrrole;

2-(5-Fluoro-4-methylpyrimidin-2-yl)-5-{[2-(1-methyl-1H-1,2,4-triazol-3-yl)phenyl]carbonyl}octahydropyrrolo[3,4-c]pyrrole;
2-[5-{[2-Fluoro-6-(2H-1,2,3-triazol-2-yl)phenyl]carbonyl}hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl]-4-methyl-6,7-dihydro-5H-cyclopenta[d]pyrimidine;
2-(4,6-Dimethylpyrimidin-2-yl)-5-{[3-fluoro-2-(3-methyl-1,2,4-oxadiazol-5-yl)phenyl]carbonyl}octahydropyrrolo[3,4-c]pyrrole;
2-(4,6-Dimethylpyrimidin-2-yl)-5-{[2-fluoro-6-(3-methyl-1,2,4-oxadiazol-5-yl)phenyl]carbonyl}octahydropyrrolo[3,4-c]pyrrole;
2-(5-Chloro-4-methylpyrimidin-2-yl)-5-{[2-fluoro-6-(2H-1,2,3-triazol-2-yl)phenyl]carbonyl}octahydropyrrolo[3,4-c]pyrrole;
2-(5-Chloro-4,6-dimethylpyrimidin-2-yl)-5-{[2-fluoro-6-(2H-1,2,3-triazol-2-yl)phenyl]carbonyl}octahydropyrrolo[3,4-c]pyrrole;
2-(5-Chloro-4,6-dimethylpyrimidin-2-yl)-5-{[2-(3-methyl-1,2,4-oxadiazol-5-yl)phenyl]carbonyl}octahydropyrrolo[3,4-c]pyrrole;
4-Methyl-2-[5-{[2-(3-methyl-1,2,4-oxadiazol-5-yl)phenyl]carbonyl}hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl]-6,7-dihydro-5H-cyclopenta[d]pyrimidine;
2-(5-Chloro-4,6-dimethylpyrimidin-2-yl)-5-{[2-(1-methyl-1H-1,2,4-triazol-3-yl)phenyl]carbonyl}octahydropyrrolo[3,4-c]pyrrole;
2-(5-Chloro-4-methylpyrimidin-2-yl)-5-{[2-(1-methyl-1H-1,2,4-triazol-3-yl)phenyl]carbonyl}octahydropyrrolo[3,4-c]pyrrole;
2-(5-Ethyl-4,6-dimethylpyrimidin-2-yl)-5-{[2-(1-methyl-1H-1,2,4-triazol-3-yl)phenyl]carbonyl}octahydropyrrolo[3,4-c]pyrrole;
2-{[3-(2H-1,2,3-Triazol-2-yl)pyridin-2-yl]carbonyl}-5-(4,5,6-trimethylpyrimidin-2-yl)octahydropyrrolo[3,4-c]pyrrole;
2-(5-Chloro-4,6-dimethylpyrimidin-2-yl)-5-{[3-(2H-1,2,3-triazol-2-yl)pyridin-2-yl]carbonyl}octahydropyrrolo[3,4-c]pyrrole;
2-(5-Fluoro-4,6-dimethylpyrimidin-2-yl)-5-{[3-(2H-1,2,3-triazol-2-yl)pyridin-2-yl]carbonyl}octahydropyrrolo[3,4-c]pyrrole;
2-(4,6-Dimethylpyrimidin-2-yl)-5-(9H-fluoren-4-ylcarbonyl)octahydropyrrolo[3,4-c]pyrrole;
[5-(4,6-Dimethyl-pyrimidin-2-yl)-hexahydro-pyrrolo[3,4-c]pyrrol-2-yl]-(5-[1,2,3]triazol-2-yl-benzo[1,3]dioxol-4-yl)-methanone;
[5-(4,6-Dimethyl-pyrimidin-2-yl)-hexahydro-pyrrolo[3,4-c]pyrrol-2-yl]-(8-[1,2,3]triazol-2-yl-naphthalen-1-yl)-methanone;
[5-(4,6-Dimethyl-pyrimidin-2-yl)-hexahydro-pyrrolo[3,4-c]pyrrol-2-yl]-(4-[1,2,3]triazol-1-yl-pyridin-3-yl)-methanone;
(5-tert-Butyl-2-methoxy-phenyl)-[5-(4,6-dimethyl-pyrimidin-2-yl)-hexahydro-pyrrolo[3,4-c]pyrrol-2-yl]-methanone;
[5-(4,6-Dimethyl-pyrimidin-2-yl)-hexahydro-pyrrolo[3,4-c]pyrrol-2-yl]-(1-[1,2,3]triazol-2-yl-naphthalen-2-yl)-methanone;
[5-(4,6-Dimethyl-pyrimidin-2-yl)-hexahydro-pyrrolo[3,4-c]pyrrol-2-yl]-(3-[1,2,3]triazol-2-yl-pyridin-2-yl)-methanone;
(2-Bromo-4,5-dimethoxy-phenyl)-[5-(4,6-dimethyl-pyrimidin-2-yl)-hexahydro-pyrrolo[3,4-c]pyrrol-2-yl]-methanone;
(3,4-Dihydro-2H-benzo[b][1,4]dioxepin-6-yl)-[5-(4,6-dimethyl-pyrimidin-2-yl)-hexahydro-pyrrolo[3,4-c]pyrrol-2-yl]-methanone;
(5-(4,6-Dimethylpyrimidin-2-yl)hexahydropyrrolo[3,4-c]pyrrol-2(1 H)-yl)(4-fluoro-2-(6-methylpyridin-2-yl)phenyl)methanone;
[5-(4,6-Dimethyl-pyrimidin-2-yl)-hexahydro-pyrrolo[3,4-c]pyrrol-2-yl]-(6-methyl-2-[1,2,3]triazol-1-yl-pyridin-3-yl)-methanone;
(1-Bromo-naphthalen-2-yl)-[5-(4,6-dimethyl-pyrimidin-2-yl)-hexahydro-pyrrolo[3,4-c]pyrrol-2-yl]-methanone;
[5-(4,6-Dimethyl-pyrimidin-2-yl)-hexahydro-pyrrolo[3,4-c]pyrrol-2-yl]-(3-methoxy-naphthalen-2-yl)-methanone;
[5-(4,6-Dimethyl-pyrimidin-2-yl)-hexahydro-pyrrolo[3,4-c]pyrrol-2-yl]-(8-[1,2,3]triazol-2-yl-naphthalen-1-yl)-methanone;
[5-(4,6-Dimethyl-pyrimidin-2-yl)-hexahydro-pyrrolo[3,4-c]pyrrol-2-yl]-(1-methoxy-naphthalen-2-yl)-methanone;
(4,5-Dimethoxy-2-[1,2,3]triazol-1-yl-phenyl)-[5-(4,6-dimethyl-pyrimidin-2-yl)-hexahydro-pyrrolo[3,4-c]pyrrol-2-yl]-methanone;
(4,5-Dimethoxy-2-[1,2,3]triazol-2-yl-phenyl)-[5-(4,6-dimethyl-pyrimidin-2-yl)-hexahydro-pyrrolo[3,4-c]pyrrol-2-yl]-methanone;

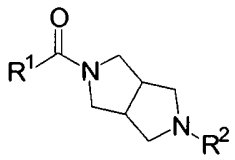
(5-(4,6-Dimethylpyrimidin-2-yl)hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl)(4-fluoro-2-(4-methylpyridin-2-yl)phenyl)methanone;
(5-(4,6-Dimethylpyrimidin-2-yl)hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl)(3-propoxypyridin-2-yl)methanone;
(3-Propoxypyridin-2-yl)(5-(5-(trifluoromethyl)pyrimidin-2-yl)hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl)methanone;
(5-(4,6-Dimethylpyrimidin-2-yl)hexahydropyrrolo[3,4-c]pyrrol-2(1 H)-yl)(4-fluoro-2-(3-fluoropyridin-2-yl)phenyl)methanone;
(3-Propoxypyridin-2-yl)(5-(quinoxalin-2-yl)hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl)methanone;
2-(5-([1,1'-Biphenyl]-2-ylsulfonyl)hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl)quinoxaline;
2-[(2,6-Dimethoxyphenyl)carbonyl]-5-[5-(trifluoromethyl)pyridin-2-yl]octahydropyrrolo[3,4-c]pyrrole;
(2,6-Dimethoxyphenyl)(5-(5-(trifluoromethyl)pyrimidin-2-yl)hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl)methanone;
(2,6-Dimethoxyphenyl)(5-(4,6-dimethylpyrimidin-2-yl)hexahydropyrrolo(3,4-c]pyrrol-2(1H)-yl)methanone;
(5-(4,6-Dimethylpyrimidin-2-yl)hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl)(3-methylfuran-2-yl)methanone;
2-[(3-Methylfuran-2-yl)carbonyl]-5-[5-(trifluoromethyl)pyridin-2-yl]octahydropyrrolo[3,4-c]pyrrole;
(3-Methylfuran-2-yl)(5-(5-(trifluoromethyl)pyrimidin-2-yl)hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl)methanone;
(3-Methylfuran-2-yl)(5-(quinoxalin-2-yl)hexahydropyrrolo[3,4-c]pyrrol-2(1 H)-yl)methanone;
2-([1,1'-Biphenyl]-2-ylsulfonyl)-5-(5-(trifluoromethyl)pyridin-2-yl)octahydropyrrolo[3,4-c]pyrrole;
2-([1,1'-Biphenyl]-2-ylsulfonyl)-5-(5-(trifluoromethyl)pyrimidin-2-yl)octahydropyrrolo[3,4-c]pyrrole;
2-([1,1'-Biphenyl]-2-ylsulfonyl)-5-(4,6-dimethylpyrimidin-2-yl)octahydropyrrolo[3,4-c]pyrrole;
2-(4,6-Dimethylpyrimidin-2-yl)-5-((2-methoxyphenyl)sulfonyl)octahydropyrrolo[3,4-c]pyrrole;
2-((2-Methoxyphenyl)sulfonyl)-5-(5-(trifluoromethyl)pyrimidin-2-yl)octahydropyrrolo[3,4-c]pyrrole;
2-((2-Methoxyphenyl)sulfonyl)-5-(5-(trifluoromethyl)pyridin-2-yl)octahydropyrrolo[3,4-c]pyrrole;
2-(5-((2-Methoxyphenyl)sulfonyl)hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl)quinoxaline;
(3,6'-Dimethyl-[2,3'-bipyridin]-2'-yl)(5-(quinoxalin-2-yl)hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl)methanone;
(3,6'-Dimethyl-[2,3'-bipyridin]-2'-yl)(5-(5-(trifluoromethyl)pyrimidin-2-yl)hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl)methanone;
(3,6'-Dimethyl-[2,3'-bipyridin]-2'-yl)(5-(5-(trifluoromethyl)pyridin-2-yl)hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl)methanone;
(5-(4,6-Dimethylpyrimidin-2-yl)hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl)(4-fluoro-2-(pyridin-2-yl)phenyl)methanone;
(5-(4,6-Dimethylpyrimidin-2-yl)hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl)(3-fluoro-2-(pyridin-2-yl)phenyl)methanone;
[2,3'-Bipyridin]-2'-yl(5-(4,6-dimethylpyrimidin-2-yl)hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl)methanone;
(5-(4,6-Dimethylpyrimidin-2-yl)hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl)(4-fluoro-2-(oxazol-2-yl)phenyl)methanone;
(5-(4,6-Dimethylpyrimidin-2-yl)hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl)(3-fluoro-2-(6-methylpyridin-2-yl)phenyl)methanone;
(5-(4,6-Dimethylpyrimidin-2-yl)hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl)(3-fluoro-2-(3-methylpyridin-2-yl)phenyl)methanone;
(2-(3-Chloropyridin-2-yl)-3-fluorophenyl)(5-(4,6-dimethylpyrimidin-2-yl)hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl)methanone;
(5-(4,6-Dimethylpyrimidin-2-yl)hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl)(3-fluoro-2-(4-methylpyridin-2-yl)phenyl)methanone;
(5-(4,6-Dimethylpyrimidin-2-yl)hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl)(3-fluoro-2-(5-methylpyridin-2-yl)phenyl)methanone;
(5-(4,6-Dimethylpyrimidin-2-yl)hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl)(3-fluoro-2-(3-fluoropyridin-2-yl)phenyl)methanone;
(5-(4,6-Dimethylpyrimidin-2-yl)hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl)(3-fluoro-2-(oxazol-2-yl)phenyl)methanone;
2-(5-Fluoro-4-methylpyrimidin-2-yl)-5-{[4-methoxy-2-(2H-1,2,3-triazol-2-yl)phenyl]carbonyl}octahydropyrrolo[3,4-c]pyrrole;
2-(5-Chloro-4-methylpyrimidin-2-yl)-5-{[4-methoxy-2-(2H-1,2,3-triazol-2-yl)phenyl]carbonyl}octahydropyrrolo[3,4-c]pyrrole;
2-(5-Fluoro-4,6-dimethylpyrimidin-2-yl)-5-{[4-methoxy-2-(2H-1,2,3-triazol-2-yl)phenyl]carbonyl}octahydropyrrolo[3,4-c]pyrrole;
2-(4,5-Dimethylpyrimidin-2-yl)-5-{[4-methoxy-2-(2H-1,2,3-triazol-2-yl)phenyl]carbonyl}octahydropyrrolo[3,4-c]pyrrole;
2-[(3-Propoxypyridin-2-yl)carbonyl]-5-[5-(trifluoromethyl)pyridin-2-yl]octahydropyrrolo[3,4-c]pyrrole;

2-{4,6-Bis[(2H3)methyl](2H)pyrimidin-2-yl}-5-{[2-fluoro-6-(2H-1,2,3-triazol-2-yl)phenyl]carbonyl}octahydropyrrolo[3,4-c]pyrrole;
2-{4,6-Bis[(2H3)methyl](2H)pyrimidin-2-yl}-5-{[3-fluoro-2-(3-methyl-1,2,4-oxadiazol-5-yl)phenyl]carbonyl}octahydropyrrolo[3,4-c]pyrrole;
2-{4,6-Bis[(2H3)methyl](2H)pyrimidin-2-yl}-5-{[4-methoxy-2-(2H-1,2,3-triazol-2-yl)phenyl]carbonyl}octahydropyrrolo[3,4-c]pyrrole;
2-(5-Ethyl-4,6-dimethylpyrimidin-2-yl)-5-{[3-(2H-1,2,3-triazol-2-yl)pyridin-2-yl]carbonyl}octahydropyrrolo[3,4-c]pyrrole;
2-(4,6-Dimethylpyrimidin-2-yl)-5-{[3-(3-methyl-1,2,4-oxadiazol-5-yl)pyridin-2-yl]carbonyl}octahydropyrrolo[3,4-c]pyrrole;
(5-(6,7-Difluoroquinoxalin-2-yl)hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl)(3-fluoro-2-(pyrimidin-2-yl)phenyl)methanone;
(5-(6,7-Difluoroquinoxalin-2-yl)hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl)(3-fluoro-2-(pyrimidin-2-yl)phenyl)methanone;
(5-(6,7-Difluoroquinoxalin-2-yl)hexahydropyrrolo[3,4-c]pyrrol-2(1 H)-yl)(4-methoxy-2-(2H-1,2,3-triazol-2-yl)phenyl)methanone;
(5-(6-(Dimethylamino)pyrimidin-4-yl)hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl)(4-methoxy-2-(2H-1,2,3-triazol-2-yl)phenyl)methanone;
(5-(6-(Dimethylamino)-2-methylpyrimidin-4-yl)hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl)(4-methoxy-2-(2H-1,2,3-triazol-2-yl)phenyl)methanone;
(5-(6-(Dimethylamino)-2-methylpyrimidin-4-yl)hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl)(3-fluoro-2-(pyrimidin-2-yl)phenyl)methanone;
(5-(6-(Dimethylamino)pyrimidin-4-yl)hexahydropyrrolo[3,4-c]pyrrol-2(1 H)-yl)(3-fluoro-2-(pyrimidin-2-yl)phenyl)methanone;
(3-Fluoro-2-(pyrimidin-2-yl)phenyl)(5-(5-fluoro-4,6-dimethylpyrimidin-2-yl)hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl)methanone;
(5-(5-Chloro-4,6-dimethylpyrimidin-2-yl)hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl)(3-fluoro-2-(pyrimidin-2-yl)phenyl)methanone;
(5-(5-Chloro-4-methylpyrimidin-2-yl)hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl)(3-fluoro-2-(pyrimidin-2-yl)phenyl)methanone;
(3-Fluoro-2-(pyrimidin-2-yl)phenyl)(5-(5-fluoro-4-methylpyrimidin-2-yl)hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl)methanone;
(5-(4,5-Dimethylpyrimidin-2-yl)hexahydropyrrolo[3,4-c]pyrrol-2(1 H)-yl)(3-fluoro-2-(pyrimidin-2-yl)phenyl)methanone;
(5-(4,6-Dimethylpyrimidin-2-yl)hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl)(5-fluoro-2-(6-methylpyridin-2-yl)phenyl)methanone;
(5-(4,6-Dimethylpyrimidin-2-yl)hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl)(5-fluoro-2-(4-methylpyridin-2-yl)phenyl)methanone;
(5-(4,6-Dimethylpyrimidin-2-yl)hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl)(5-fluoro-2-(5-methylpyridin-2-yl)phenyl)methanone;
(5-(4,6-Dimethylpyrimidin-2-yl)hexahydropyrrolo[3,4-c]pyrrol-2(1 H)-yl)(5-fluoro-2-(3-fluoropyridin-2-yl)phenyl)methanone;
(5-(4,6-Dimethylpyrimidin-2-yl)hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl)(5-fluoro-2-(pyridin-2-yl)phenyl)methanone;
(5-(4,6-Dimethylpyrimidin-2-yl)hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl)(4-fluoro-2-(oxazol-2-yl)phenyl)methanone;
(5-(4,6-Dimethylpyrimidin-2-yl)hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl)(6-fluoro-2-(6-methylpyridin-2-yl)phenyl)methanone;
(5-(4,6-Dimethylpyrimidin-2-yl)hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl)(6-fluoro-2-(4-methylpyridin-2-yl)phenyl)methanone;
(5-(4,6-Dimethylpyrimidin-2-yl)hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl)(6-fluoro-2-(5-methylpyridin-2-yl)phenyl)methanone;
(5-(4,6-Dimethylpyrimidin-2-yl)hexahydropyrrolo[3,4-c]pyrrol-2(1 H)-yl)(6-fluoro-2-(3-fluoropyridin-2-yl)phenyl)methanone;
(5-(4,6-Dimethylpyrimidin-2-yl)hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl)(6-fluoro-2-(pyridin-2-yl)phenyl)methanone;
(5-(4,6-Dimethylpyrimidin-2-yl)hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl)(6-fluoro-2-(oxazol-2-yl)phenyl)methanone;

(3,6'-Dimethyl-[2,3'-bipyridin]-2'-yl)(5-(quinoxalin-2-yl)hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl)methanone; and [5-(4,6-Dimethyl-pyrimidin-2-yl)-hexahydro-pyrrolo[3,4-c]pyrrol-2-yl]-(2-fluoro-6-[1,2,3]triazol-2-yl-phenyl)-methanone·HCl·1.65H2O.

35. A pharmaceutical composition for treating a disease, disorder or medical condition mediated by orexin activity comprising:

(a) an effective amount of at least one chemical entity selected from compounds of Formula (I):



Formula (I)

wherein:

R^1 is a member selected from the group consisting of:

A) phenyl substituted or unsubstituted with one or two R^a members and substituted in the *ortho* position with R^b;
R^a is independently selected from the group consisting of: -H, halo,-C_{1-4}alkyl, -C_{1-4}alkoxy, and -NO_2, wherein two adjacent R^a members may come together to form a six membered aromatic ring;
R^b is a member selected from the group consisting of:

a) halo, -C_{1-4}alkoxy, -C_{1-4}alkyl,-CF_3, -OCF_3, or -CN;
b) 5-membered heteroaryl ring containing one oxygen or one sulfur members;
c) 5-6 membered heteroaryl ring containing one, two or three nitrogen members, optionally containing one oxygen member, substituted or unsubstituted with halo or -C_{1-4}alkyl; and
d) phenyl substituted or unsubstituted with halo, -CH_3, or -CF_3;

B) pyridine substituted or unsubstituted with one or two R^c members and substituted with R^d, wherein R^d is positioned adjacent to the point of attachment by R^1;
R^c is C_{1-4}alkyl;
R^d is a member selected from the group consisting of:

a) 5-6 membered heteroaryl ring selected from the group consisting of: 1H-1,2,3-triazol-1-yl, 2H-1,2,3-triazol-2-yl, 1H-pyrazol-5-yl, 3-methyl-1,2,4-oxadiazol-5-yl, pyridinyl, 3-methyl-pyridin-2-yl; 1-(tetrahydro-2H-pyran-2-yl)-1 H-pyrazol-5-yl), phenyl, and pyrimidin-2-yl; and
b) -CF_3, -Br, and -C_{1-4}alkoxy;

C) 5-membered heteroaryl ring selected from the group consisting of: 2-methyl-1,3-thiazol-yl, 1H-pyrazol-5-yl, oxazole, isoxazolyl, thiophen-2-yl, and furan-2-yl, each substituted with phenyl substituted or unsubstituted with -F; and
D) 5-13 membered aryl or heteroaryl ring selected from the group consisting of: 3-methylfuran-2-yl, 9H-fluorene, quinoline, cinnoline; 3-(1H-pyrrol-1-yl)thiophen-2-yl, 8-[1,2,3]-triazol-2-yl-naphthalen-1-yl, 2,3-dihydro-1,4-benzodioxin-5-yl, 1H-indol-7-yl, 4-fluoronaphthalen-1-yl, and naphthalen-1-yl;

R^2 is a member selected from the group consisting of:

A) 6-membered heteroaryl ring containing two nitrogen members substituted with one or more members independently selected from the group consisting of: halo, -C_{1-4}alkyl, -CD_3, -D, -C_{1-4}alkoxy, cyclopropyl, morpholin-2-yl, -CO_2C_{1-4}alkyl, -CO_2H, -CH_2OH,-C(O)N(C_{1-4}alkyl)$_2$, -CF_3, -CN, -OH, -NO_2, -N(C_{1-4}alkyl)$_2$, phenyl, furan-2-yl, thiophen-2-yl, 1H-pyrazol-4-yl, and pyrrolidin-1-yl;
B) pyridine substituted with one or two members independently selected from the group consisting of halo, -C_{1-4}alkyl, -C_{1-4}alkoxy, and -CF_3;

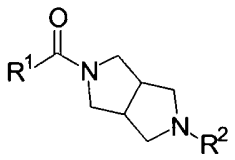
C) 9-membered heteroaryl ring selected from the group consisting of: benzooxazol-2-yl, 2-methylpyrimidin-4(3H)-one, 6-fluoro-1,3-benzothiazole, 1,3-benzothiazole, 6-methoxy-1,3-benzothiazole, 6-methyl-1,3-benzothiazole, 6-chloro-benzothiazol-2-yl, and 4-methyl-6,7-dihydro-5H-cyclopenta[d]pyrimidine;
D) 10-membered heteroaryl ring selected from the group consisting of: quinoxalin-2-yl, 3-methylquinoxalin-2-yl, 6,7-difluoroquinoxalin-2-yl, 3-(trifluoromethyl)quinoxaline, quinoline, 4-methylquinoline, and 6-fluoroquinazolin-2-yl; and
E) 4-methyl-1,3,5-triazin-2-yl;

and pharmaceutically acceptable salts of compounds of Formula (I); and

(b) at least one pharmaceutically acceptable excipient.

36. A pharmaceutical composition comprising an effective amount of at least one chemical entity of claim 34, and at least one pharmaceutically acceptable excipient.

37. At least one chemical entity selected from compounds of Formula(I):



Formula (I)

wherein:

R^1 is a member selected from the group consisting of:

A) phenyl substituted or unsubstituted with one or two R^a members and substituted in the *ortho* position with R^b;
R^a is independently selected from the group consisting of: -H, halo,-C_{1-4}alkyl, -C_{1-4}a[koxy, and -NO_2, wherein two adjacent R^a members may come together to form a six membered aromatic ring;
R^b is a member selected from the group consisting of:

a) halo, -C_{1-4}alkoxy, -C_{1-4}alkyl,-CF_3, -OCF_3, or -CN;
b) 5-membered heteroaryl ring containing one oxygen or one sulfur members;
c) 5-6 membered heteroaryl ring containing one, two or three nitrogen members, optionally containing one oxygen member, substituted or unsubstituted with halo or -C_{1-4}alkyl; and
d) phenyl substituted or unsubstituted with halo, -CH_3, or -CF_3;

B) pyridine substituted or unsubstituted with one or two R^c members and substituted with R^d, wherein R^d is positioned adjacent to the point of attachment by R^1;
R^c is C_{1-4}alkyl;
R^d is a member selected from the group consisting of:

a) 5-6 membered heteroaryl ring selected from the group consisting of: 1H-1,2,3-triazol-1-yl, 2H-1,2,3-triazol-2-yl, 1H-pyrazol-5-yl, 3-methyl-1,2,4-oxadiazol-5-yl, pyridinyl, 3-methyl-pyridin-2-yl; 1-(tetrahydro-2H-pyran-2-yl)-1H-pyrazol-5-yl), phenyl, and pyrimidin-2-yl; and
b) -CF_3, -Br, and -C_{1-4}alkoxy;

C) 5-membered heteroaryl ring selected from the group consisting of: 2-methyl-1,3-thiazol-yl, 1 H-pyrazol-5-yl, oxazole, isoxazolyl, thiophen-2-yl, and furan-2-yl, each substituted with phenyl substituted or unsubstituted with -F; and
D) 5-13 membered aryl or heteroaryl ring selected from the group consisting of: 3-methylfuran-2-yl, 9H-fluorene, quinoline, cinnoline; 3-(1 H-pyrrol-1-yl)thiophen-2-yl, 8-[1,2,3]-triazol-2-yl-naphthalen-1-yl, 2,3-dihydro-1,4-benzodioxin-5-yl, 1H-indol-7-yl, 4-fluoronaphthalen-1-yl, and naphthalen-1-yl;

R^2 is a member selected from the group consisting of:

A) 6-membered heteroaryl ring containing two nitrogen members substituted with one or more members independently selected from the group consisting of: halo, $-C_{1-4}$alkyl, $-CD_3$, -D, $-C_{1-4}$alkoxy, cyclopropyl, morpholin-2-yl, $-CO_2C_1$-4alkyl, $-CO_2H$, $-CH_2OH$, $-C(O)N(C_{1-4}alkyl)_2$, $-CF_3$, -CN, -OH, $-NO_2$, $-N(C_{1-4}alkyl)_2$, phenyl, furan-2-yl, thiophen-2-yl, 1H-pyrazol-4-yl, and pyrrolidin-1-yl;
B) pyridine substituted with one or two members independently selected from the group consisting of: halo, $-C_{1-4}$alkyl, $-C_{1-4}$alkoxy, and $-CF_3$;
C) 9-membered heteroaryl ring selected from the group consisting of:

benzooxazol-2-yl, 2-methylpyrimidin-4(3H)-one, 6-fluoro-1,3-benzothiazole, 1,3-benzothiazole, 6-methoxy-1,3-benzothiazole, 6-methyl-1,3-benzothiazole, 6-chloro-benzothiazol-2-yl, and 4-methyl-6,7-dihydro-5H-cyclopenta[d]pyrimidine;

D) 10-membered heteroaryl ring selected from the group consisting of:

quinoxalin-2-yl, 3-methylquinoxalin-2-yl, 6,7-difluoroquinoxalin-2-yl, 3-(trifluoromethyl)quinoxaline, quinoline, 4-methylquinoline, and 6-fluoroquinazolin-2-yl; and

E) 4-methyl-1,3,5-triazin-2-yl;

and pharmaceutically acceptable salts of compounds of Formula (I), and at least one pharmaceutically acceptable excipient for use in a method of treating a subject suffering from or diagnosed with a disease, disorder, or medical condition mediated by orexin receptor activity.

38. The at least one chemical entity and at least one pharmaceutically acceptable excipient for use according to claim 37, wherein the chemical entity is [5-(4,6-Dimethyl-pyrimidin-2-yl)-hexahydro-pyrrolo[3,4-c]pyrrol-2-yl]-(2-fluoro-6-[1,2,3]triazol-2-yl-phenyl)-methanone or a pharmaceutically acceptable salt thereof.

39. The at least one chemical entity and at least one pharmaceutically acceptable excipient for use according to claim 38, wherein the chemical entity is the HCl salt of [5-(4,6-Dimethyl-pyrimidin-2-yl)-hexahydro-pyrrolo[3,4-c]pyrrol-2-yl]-(2-fluoro-6-[1,2,3]triazol-2-yl-phenyl)-methanone.

40. The at least one chemical entity and at least one pharmaceutically acceptable excipient for use according to claim 38, wherein the chemical entity is [5-(4,6-Dimethyl-pyrimidin-2-yl)-hexahydro-pyrrolo[3,4-c]pyrrol-2-yl]-(2-fluoro-6-[1,2,3]triazol-2-yl-phenyl)-methanone.

41. The at least one chemical entity and at least one pharmaceutically acceptable excipient for use according to claim 37, wherein the chemical entity is 2-(4,6-Dimethylpyrimidin-2-yl)-5-{[4-methoxy-2-(2H-1,2,3-triazol-2-yl)phenyl]carbonyl}octahydropyrrolo[3,4-c]pyrrole or a pharmaceutically acceptable salt thereof.

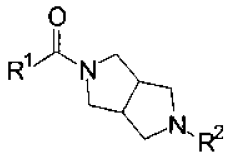
42. The at least one chemical entity and at least one pharmaceutically acceptable excipient for use according to claim 41, wherein the chemical entity is 2-(4,6-Dimethylpyrimidin-2-yl)-5-{[4-methoxy-2-(2H-1,2,3-triazol-2-yl)phenyl]carbonyl}octahydropyrrolo[3,4-c]pyrrole.

43. The at least one chemical entity and at least one pharmaceutically acceptable excipient for use according to Claim 37, wherein the disease, disorder, or medical condition is selected from the group consisting of: disorders of the sleep-wake cycle, insomnia, restless legs syndrome, jet-lag, disturbed sleep, sleep disorders secondary to neurological disorders, manias, depressions, manic depression, schizophrenia, pain syndromes, fibromyalgia, neuropathic pain , catatonia, Parkinson's disease, Tourette's syndrome, anxiety, delirium, dementias, overweight or obesity and conditions related to overweight or obesity, insulin resistance, type II diabetes, hyperlipidemia, gallstones, angina, hypertension, breathlessness, tachycardia, infertility, sleep apnea, back and joint pain, varicose veins, osteoarthritis, hypertension, tachycardia, arrhythmias, angina pectoris, acute heart failure, ulcers, irritable bowel syndrome, diarrhea and gastroesophageal reflux.

44. The at least one chemical entity and at least one pharmaceutically acceptable excipient for use according to Claim 37, wherein the disease, disorder, or medical condition is insomnia.

Patentansprüche

1. Chemische Einheit, bei der es sich um eine Verbindung der Formel (I):



Formel (I)

handelt,
wobei:

R^1 für ein aus der folgenden Gruppe ausgewähltes Glied steht:

A) Phenyl, substituiert oder unsubstituiert durch ein oder zwei R^a-Glieder und in der ortho-Position substituiert durch R^b;
R^a ist unabhängig aus der folgenden Gruppe ausgewählt: -H, Halogen, -C_{1-4}-Alkyl, -C_{1-4}-Alkoxy und -NO_2, wobei zwei benachbarte R_a-Glieder zusammen einen 6-gliedrigen aromatischen Ring bilden können;
R^b steht für ein aus der folgenden Gruppe ausgewähltes Glied:

a) Halogen, -C_{1-4}-Alkoxy, -C_{1-4}-Alkyl, -CF_3, -OCF_3 oder -CN;
b) 5-gliedriger Heteroarylring mit einem Sauerstoff- oder einem Schwefelglied;
c) 5- oder 6-gliedriger Heteroarylring mit einem, zwei oder drei Stickstoffgliedern, welcher gegebenenfalls ein Sauerstoffglied enthält, substituiert oder unsubstituiert durch Halogen oder -C_{1-4}-Alkyl; und
d) Phenyl, substituiert oder unsubstituiert durch Halogen, -CH_3 oder -CF_3;

B) Pyridin, substituiert oder unsubstituiert durch ein oder zwei R^c-Glieder und substituiert durch R^d, wobei sich R^d in der dem Anbindungspunkt von R^1 benachbarten Position befindet;
R^c steht für C_{1-4}-Alkyl;
R^d steht für ein aus der folgenden Gruppe ausgewähltes Glied:

a) 5- oder 6-gliedriger Heteroarylring, ausgewählt aus der folgenden Gruppe: 1H-1,2,3-Triazol-1-yl, 2H-1,2,3-Triazol-2-yl, 1H-Pyrazol-5-yl, 3-Methyl-1,2,4-oxadiazol-5-yl, Pyridinyl, 3-Methylpyridin-2-yl, 1-(Tetrahydro-2H-pyran-2-yl)-1H-pyrazol-5-yl, Phenyl und Pyrimidin-2-yl; und
b) -CF_3, -Br und -C_{1-4}-Alkoxy;

C) 5-gliedriger Heteroarylring, ausgewählt aus der folgenden Gruppe: 2-Methyl-1,3-thiazol-yl, 1H-Pyrazol-5-yl, Oxazol, Isoxazolyl, Thiophen-2-yl und Furan-2-yl, jeweils substituiert durch -F substituiertes oder unsubstituiertes Phenyl; und
D) 5- bis 13-gliedriger Aryl- oder Heteroarylring, ausgewählt aus der folgenden Gruppe: 3-Methyl-furan-2-yl, 9H-Fluoren, Chinolin, Cinnolin; 3-(1H-Pyrrol-1-yl)thiophen-2-yl, 8-[1,2,3]-Triazol-2-ylnaphthalin-1-yl, 2,3-Dihydro-1,4-benzodioxin-5-yl, 1H-Indol-7-yl, 4-Fluor-naphthalin-1-yl und Naphthalin-1-yl;

R^2 für ein aus der folgenden Gruppe ausgewähltes Glied steht:

A) 6-gliedriger Heteroarylring mit zwei Stickstoffgliedern, substituiert durch ein oder mehrere Glieder unabhängig ausgewählt aus der folgenden Gruppe: Halogen, -C_{1-4}-Alkyl, -CD_3, -D, -C_{1-4}-Alkoxy, Cyclopropyl, Morpholin-2-yl, -CO_2-C_{1-4}-Alkyl, -CO_2H, - CH_2OH, -C(O)N(C_{1-4}-Alkyl)$_2$, -CF_3, -CN, -OH,-NO_2, -N (C_{1-4}-Alkyl)$_2$, Phenyl, Furan-2-yl, Thiophen-2-yl, 1H-Pyrazol-4-yl und Pyrrolidin-1-yl;
B) Pyridin, substituiert durch ein oder zwei Glieder unabhängig ausgewählt aus der folgenden Gruppe: Halogen, -C_{1-4}-Alkyl, -C_{1-4}-Alkoxy und -CF_3;
C) 9-gliedriger Heteroarylring, ausgewählt aus der folgenden Gruppe: Benzoxazol-2-yl, 6-Fluor-1,3-benzothiazol, 1,3-Benzothiazol, 6-Methoxy-1,3-benzothiazol, 6-Methyl-1,3-benzothiazol, 6-Chlorbenzothiazol-2-yl und 4-Methyl-6,7-dihydro-5H-cyclopenta[d]-pyrimidin;
D) 10-gliedriger Heteroarylring, ausgewählt aus der folgenden Gruppe: Chinoxalin-2-yl, 3-Methylchinoxalin-

2-yl, 6,7-Difluor-chinoxalin-2-yl, 3-(Trifluormethyl)-chinoxalin, Chinolin, 4-Methylchinolin und 6-Fluorchinazolin-2-yl; und
E) 4-Methyl-1,3,5-triazin-2-yl oder 2-Methyl-pyrimidin-4(3H)-on;

und pharmazeutisch unbedenkliche Salze der Verbindung der Formel (I).

2. Chemische Einheit nach Anspruch 1, wobei es sich bei der chemischen Einheit um [5-(4,6-Dimethyl-pyrimidin-2-yl)hexahydropyrrolo[3,4-c]pyrrol-2-yl]-(2-fluor-6-[1,2,3]triazol-2-ylphenyl)methanon oder ein pharmazeutisch unbedenkliches Salz davon handelt.

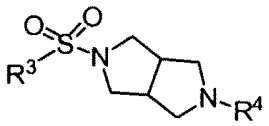
3. Chemische Einheit nach Anspruch 2, wobei es sich bei der chemischen Einheit um das HCl-Salz von [5-(4,6-Dimethylpyrimidin-2-yl)hexahydropyrrolo-[3,4-c]pyrrol-2-yl]-(2-fluor-6-[1,2,3]triazol-2-ylphenyl)methanon handelt.

4. Chemische Einheit nach Anspruch 2, wobei es sich bei der chemischen Einheit um [5-(4,6-Dimethyl-pyrimidin-2-yl)hexahydropyrrolo[3,4-c]pyrrol-2-yl]-(2-fluor-6-[1,2,3]triazol-2-ylphenyl)methanon handelt.

5. Chemische Einheit nach Anspruch 1, wobei es sich bei der chemischen Einheit um 2-(4,6-Dimethylpyrimidin-2-yl)-5-{[4-methoxy-2-(2H-1,2,3-triazol-2-yl)phenyl]carbonyl}octahydropyrrolo[3,4-c]pyrrol oder ein pharmazeutisch unbedenkliches Salz davon handelt.

6. Chemische Einheit nach Anspruch 5, wobei es sich bei der chemischen Einheit um 2-(4,6-Dimethylpyrimidin-2-yl)-5-{[4-methoxy-2-(2H-1,2,3-triazol-2-yl)phenyl]carbonyl}octahydropyrrolo[3,4-c]pyrrol handelt.

7. Chemische Einheit, ausgewählt aus Verbindungen der Formel (II) :



(II),

wobei

R^3 für Phenyl steht, substituiert oder unsubstituiert durch ein Glied unabhängig ausgewählt aus der folgenden Gruppe: -C_{1-4}-Alkoxy und Phenyl; und
R^4 für ein aus der folgenden Gruppe ausgewähltes Glied steht: (5-Trifluormethyl)pyridin-2-yl, (5-Trifluormethyl)pyrimidin-2-yl, 4,6-Dimethyl-pyrimidin-2-yl und Chinoxalin-2-yl;

und pharmazeutisch unbedenkliche Salze der Verbindungen der Formel (II).

8. Chemische Einheit, definiert wie in Anspruch 1, wobei R^1 für Phenyl steht, wobei R^a für ein unabhängig aus der folgenden Gruppe ausgewähltes Glied steht: -F, -I, -Cl, -OCH_3, -OCH_2CH_3, -CH_3,-$CH(CH_3)_2$, -$C(CH_3)_3$ und -NO_2.

9. Chemische Einheit, definiert wie in Anspruch 1, wobei R^1 für Phenyl steht, wobei R^b für ein aus der folgenden Gruppe ausgewähltes Glied steht: -Br, -F, -I, -C_{1-4}-Alkyl, -OCH_3, -OCH_2CH_3, -CN, -CF_3 und -OCF_3

10. Chemische Einheit, definiert wie in Anspruch 1, wobei R^1 für Phenyl steht, wobei R^a aus der folgenden Gruppe ausgewählt ist: -H, -F, -Cl, -CH_3, -$C(CH_3)_3$, -OCH_3 und -OCH_2CH_3, und R^b aus der folgenden Gruppe ausgewählt ist: -Br, -F, -I, -C_{1-4}-Alkyl, -OCH_3, -OCH_2CH_3, -CN, -CF_3 und -OCF_3.

11. Chemische Einheit, definiert wie in Anspruch 1, wobei R^1 für Phenyl steht, wobei R^b für 2-Thiophen-2-yl oder 2-Furan-2-yl steht.

12. Chemische Einheit, definiert wie in Anspruch 1, wobei R^1 für Phenyl steht, wobei R^b aus der folgenden Gruppe ausgewählt ist: Phenyl, 3-Chlorphenyl, 4-Fluorphenyl, 3-Fluorphenyl, 4-Methylphenyl und 4-Trifluormethylphenyl.

13. Chemische Einheit, definiert wie in Anspruch 1, wobei R^1 für Phenyl steht, wobei R^b für ein aus der folgenden

Gruppe ausgewähltes Glied steht: 1H-Pyrrol-1-yl, 1H-Pyrazol-1-yl, 1H-Pyrazol-5-yl, 1H-Imidazol-2-yl, 1-Methyl-1H-imidazol-2-yl, 1H-1,2,3-Triazol-1-yl, 2H-1,2,3-Triazol-2-yl, 2H-1,2,3-Triazol-1-yl, 1H-1,2,4-Triazol-5-yl, 2H-1,2,4-Triazol-l-yl, 2H-1,2,4-Triazol-3-yl, 4H-1,2,4-Triazol-3-yl, 4H-1,2,4-Triazol-4-yl, 1-Methyl-1H-1,2,4-triazol-3-yl, 1-Methyl-1H-1,2,4-triazol-5-yl und 1-(Tetrahydro-2H-pyran-2-yl)-1H-pyrazol-5-yl.

14. Chemische Einheit, definiert wie in Anspruch 1, wobei R^1 für Phenyl steht, wobei R^b für ein aus der folgenden Gruppe ausgewähltes Glied steht: Pyridin-2-yl, 3-Chlorpyridin-2-yl, 3-Fluorpyridin-2-yl, 3-Methylpyridin-2-yl, 4-Methylpyridin-2-yl, 5-Methylpyridin-2-yl, 6-Methylpyridin-2-yl, 2-Pyridin-3-yl und 2-Pyrimidin-2-yl.

15. Chemische Einheit, definiert wie in Anspruch 1, wobei R^1 für Phenyl steht, wobei R^b für ein aus der folgenden Gruppe ausgewähltes Glied steht: 3-Methyl-1,2,4-oxadiazol-5-yl und Oxazol-2-yl.

16. Chemische Einheit, definiert wie in Anspruch 1, wobei R^1 für Phenyl steht, wobei R^a für Halogen, $-C_{1-4}$-Alkyl oder $-C_{1-4}$-Alkoxy steht und R^b für Triazol oder Pyrimidin, substituiert oder unsubstituiert durch Halogen oder $-C_{1-4}$-Alkyl, steht.

17. Chemische Einheit, definiert wie in Anspruch 1, wobei R^1 für (1-Methylethyl)-2-(2H-1,2,3-triazol-2-yl)phenyl, 2-(1H-1,2,3-Triazol-1-yl)phenyl, 2-(2H-1,2,3-Triazol-2-yl)phenyl, 2-Fluor-6-(2H-1,2,3-triazol-2-yl)phenyl, 2-Methyl-6-(2H-1,2,3-triazol-2-yl)phenyl, 3-Fluor-2-(2H-1,2,3-triazol-2-yl)-phenyl, 3-Fluor-2-(1H-1,2,3-triazol-1-yl)phenyl, 3-Methoxy-2-(1H-1,2,3-triazol-1-yl)phenyl, 3-Methoxy-2-(2H-1,2,3-triazol-2-yl)phenyl, 3-Methyl-2-(2H-1,2,3-triazol-2-yl)phenyl, 3-Methyl-2-(1H-1,2,3-triazol-1-yl)phenyl, 4-Fluor-2-(2H-1,2,3-triazol-2-yl)phenyl, 4-Methoxy-2-(2H-1,2,3-triazol-2-yl)phenyl, 4-Methoxy-2-(1H-1,2,3-triazol-2-yl)phenyl, 4,5-Dimethoxy-2-[1,2,3]triazol-1-ylphenyl, 4,5-Dimethoxy-2-[1,2,3]triazol-2-ylphenyl, 5-[1,2,3]Triazol-2-yl-benzo[1,3]dioxol-4-yl, 5-Chlor-2-(2H-1,2,3-triazol-2-yl)phenyl, 5-Fluor-2-(2H-1,2,3-triazol-2-yl)phenyl, 5-Iod-2-(2H-1,2,3-triazol-2-yl)phenyl, 5-Methoxy-2-(2H-1,2,3-triazol-2-yl)phenyl, 5-Methyl-2-(2H-1,2,3-triazol-2-yl)-phenyl, 1-[1,2,3]Triazol-2-ylnaphthalin-2-yl, 2-(lH-1,2,4-Triazol-1-yl)phenyl, 2-(1H-1,2,4-Triazol-5-yl)phenyl, 2-(1-Methyl-1H-1,2,4-triazol-5-yl)phenyl, 2-(1-Methyl-1H-1,2,4-triazol-3-yl)-phenyl, 2-(4H-1,2,4-Triazol-3-yl)phenyl, 2-(4H-1,2,4-Triazol-4-yl)phenyl, 2-(3-Methyl-1,2,4-oxadiazol-5-yl)phenyl, 3-Fluor-2-(3-methyl-1,2,4-oxadiazol-5-yl)phenyl, 2-Fluor-6-(3-methyl-1,2,4-oxadiazol-5-yl)phenyl, 4,5-Difluor-2-(4H-1,2,4-triazol-4-yl)phenyl, 2-Fluor-6-pyrimidin-2-yl-phenyl, 2-(Pyrimidin-2-yl)pyridin-3-yl, 3-Fluor-2-pyrimidin-2-ylphenyl, 4-Fluor-2-(pyrimidin-2-yl)-phenyl, 4-Methoxy-2-(pyrimidin-2-yl)phenyl, 5-Fluor-2-pyrimidin-2-ylphenyl und 5-Methyl-2-pyrimidin-2-ylphenyl steht.

18. Chemische Einheit, definiert wie in Anspruch 1, wobei R^1 für Pyridin steht, wobei R^d für ein aus der folgenden Gruppe ausgewähltes Glied steht: $-CF_3$, -Br und $-OCH_2CH_2CH_3$.

19. Chemische Einheit, definiert wie in Anspruch 1, wobei R^1 für Pyridin steht, wobei R^d für ein aus der folgenden Gruppe ausgewähltes Glied steht: 1H-Pyrazol-5-yl, 2H-1,2,3-Triazol-1-yl, 2H-1,2,3-Triazol-2-yl, 4H-1,2,3-Triazol-1-yl, 1-(Tetrahydro-2H-pyran-2-yl)-1H-pyrazol-5-yl, 3-Methylpyridin-2-yl und 3-Methyl-1,2,4-oxadiazol-5-yl.

20. Chemische Einheit, definiert wie in Anspruch 1, wobei R^1 für Pyridin steht, wobei R^d für ein aus der folgenden Gruppe ausgewähltes Glied steht: 1H-Pyrazol-5-yl, 2H-1,2,3-Triazol-1-yl und 2H-1,2,3-Triazol-2-yl.

21. Chemische Einheit, definiert wie in Anspruch 1, wobei R^1 für 1-Phenyl-1H-pyrazol-5-yl, 3-Phenyl-thiophen-2-yl, 3-Phenylfuran-2-yl, 5-Phenyl-1,3-oxazol-4-yl, 5-Phenylisoxazol-4-yl, 5-(2-Fluorphenyl)-2-methyl-1,3-thiazol-4-yl, 2-Methyl-5-phenylthiazol-4-yl oder 5-(4-Fluorphenyl)-2-methyl-1,3-thiazol-4-yl steht.

22. Chemische Einheit, definiert wie in Anspruch 1, wobei R^1 aus der folgenden Gruppe ausgewählt ist: 3-Methylfuran-2-yl, 9H-Fluoren, Chinolin, Cinnolin; 3-(1H-Pyrrol-1-yl)thiophen-2-yl, 8-[1,2,3]-Triazol-2-ylnaphthalin-1-yl, 2,3-Dihydro-1,4-benzodioxin-5-yl, 1H-Indol-7-yl, 4-Fluornaphthalin-1-yl und Naphthalin-1-yl, und R^2 aus der folgenden Gruppe ausgewählt ist: 4,6-Dimethylpyrimidin-2-yl, 4-Phenylpyrimidin-2-yl, Chinoxalin und 4-Methoxypyrimidin-2-yl.

23. Chemische Einheit, definiert wie in Anspruch 1, wobei R^2 für Pyrimidin steht, substituiert durch ein oder mehrere Glieder unabhängig ausgewählt aus der folgenden Gruppe: -F, -Cl, -D, $-CD_3$, $-CH_3$, Ethyl, Isopropyl, Propyl, tert.-Butyl, $-CF_3$, $-OCH_3$, $-N(CH_3)_2$, -CN, -OH, $-CH_2OH$, $-NO_2$, $-CO_2CH_3$, $-CO_2H$, $-C(O)N(CH_3)_2$, Phenyl, Furan-2-yl, Thiophen-2-yl, 1H-Pyrazol-4-yl, Cyclopropyl, Pyrrolidin-1-yl und Morpholin-4-yl.

24. Chemische Einheit, definiert wie in Anspruch 1, wobei R^2 für 4,6-Dimethylpyrimidin-2-yl, 4,5-Dimethylpyrimidin-2-yl, 4,6-Dimethoxypyrimidin-2-yl, 4-Phenylpyrimidin-2-yl, 4-Furan-2-ylpyrimidin-2-yl, 4-Methylpyrimidin-2-yl, 4-Me-

thoxypyrimidin-2-yl, 4-Thiophen-2-ylpyrimidin-2-yl, N,N,6-Trimethylpyrimidin-4-amin, 4-(Trifluormethyl)pyrimidin-2-yl, 4,5,6-Trimethylpyrimidin-2-yl, 4-(Trifluormethyl)-pyrimidin-5-carboxylat, 4-(Trifluormethyl)-pyrimidin-5-carbonsäure, 5-Nitro-pyrimidin-2-yl, 6-Methylpyrimidin-4-carbonsäure, N,N-Dimethyl-4-(trifluormethyl)pyrimidin-5-carbonsäureamid, N,N,6-Trimethylpyrimidincarbonsäureamid, 6-Methyl-pyrimidin-4-carbonsäurenitril, 4,6-Bis(trifluormethyl)pyrimidin-2-yl, 6-Methylpyrimidin-4-ol, 4-(Furan-2-yl)-6-methylpyrimidin-2-yl, 5-Fluor-4-methylpyrimidin-2-yl, 5-Fluorpyrimidin-2-yl, 4-Methoxy-6-methylpyrimidin-2-yl, 4-Ethyl-6-methylpyrimidin-2-yl, 4-Isopropyl-6-methylpyrimidin-2-yl, 4-tert.-Butyl-6-methylpyrimidin-2-yl, 4-Cyclopropyl-6-methylpyrimidin-2-yl, 4-Methyl-6-morpholin-4-ylpyrimidin-2-yl, 5-Chlor-4-methylpyrimidin-2-yl, 5-Chlor-4,6-dimethylpyrimidin-2-yl, 5-Fluor-4,6-dimethylpyrimidin-2-yl, 5-Trifluormethylpyrimidin-2-yl, 4, 6-Bis [(^{2}H3)methyl]-(^{2}H)pyrimidin-2-yl oder 5-Ethyl-4,6-dimethylpyrimidin-2-yl steht.

25. Chemische Einheit, definiert wie in Anspruch 1, wobei R^2 für Pyrimidin steht, substituiert durch ein oder mehrere unabhängig aus der folgenden Gruppe ausgewählte Glieder: -Cl, -F, $-CH_3$, $-CF_3$, $-N(CH_3)_2$, -D und $-CD_3$.

26. Chemische Einheit, definiert wie in Anspruch 1, wobei R^2 für 4,6-Dimethylpyrimidin-2-yl, 4,5-Dimethylpyrimidin-2-yl, 4,6-Dimethoxypyrimidin-2-yl, 4-Methylpyrimidin-2-yl, 4-Methoxypyrimidin-2-yl, N,N,6-Trimethylpyrimidin-4-amin, 4-(Trifluormethyl)pyrimidin-2-yl, 4,5,6-Trimethylpyrimidin-2-yl, 4,6-Bis(trifluormethyl)pyrimidin-2-yl, 6-Methylpyrimidin-4-ol, 5-Fluor-4-methylpyrimidin-2-yl, 5-Fluorpyrimidin-2-yl, 4-Methoxy-6-methyl-pyrimidin-2-yl, 5-Chlor-4-methylpyrimidin-2-yl, 5-Chlor-4,6-dimethylpyrimidin-2-yl, 5-Fluor-4,6-dimethylpyrimidin-2-yl, 5-Trifluormethylpyrimidin-2-yl oder 4,6-Bis[(^{2}H3)methyl]-(^{2}H)pyrimidin-2-yl steht.

27. Chemische Einheit, definiert wie in Anspruch 1, wobei R^2 für Pyrazin oder Triazin steht, substituiert durch ein oder mehrere $-CH_3$.

28. Chemische Einheit, definiert wie in Anspruch 1, wobei R^2 für Pyridin steht, substituiert durch ein oder mehrere unabhängig aus der folgenden Gruppe ausgewählte Glieder: -F, $-OCH_3$, $-OCH_2CH_3$, $-CH_3$ und $-CF_3$.

29. Chemische Einheit, definiert wie in Anspruch 1, wobei R^2 für ein aus der folgenden Gruppe ausgewähltes Glied steht: Benzoxazol-2-yl, 2-Methyl-pyrimidin-4(3H)-on und 4-Methyl-6,7-dihydro-5H-cyclopenta[d]pyrimidin, und R^1 für Phenyl steht, in der ortho-Position substituiert durch R^b, wobei R^b für 2H-1,2,3-Triazol-2-yl, 2H-1,2,3-Triazol-1-yl, 3-Methyl-1,2,4-oxadiazol-5-yl oder 2-Pyrimidin-2-yl steht.

30. Chemische Einheit, definiert wie in Anspruch 1, wobei R^2 für ein aus der folgenden Gruppe ausgewähltes Glied steht: Chinoxalin-2-yl, 3-Methyl-chinoxalin-2-yl, 6,7-Difluorchinoxalin-2-yl, 3-(Trifluormethyl)chinoxalin, 4-Methylchinolin und 6-Fluorchinazolin-2-yl, und R^1 für Phenyl steht, substituiert in der ortho-Position durch R^b, wobei R^b für 2H-1,2,3-Triazol-2-yl, 2H-1,2,3-Triazol-1-yl, 3-Methyl-1,2,4-oxadiazol-5-yl oder 2-Pyrimidin-2-yl steht.

31. Chemische Einheit, definiert wie in Anspruch 7, wobei R^3 für Biphenyl oder 2-Methoxyphenyl steht und R^4 für (5-Trifluormethyl)pyridin-2-yl, (5-Trifluormethyl)pyrimidin-2-yl, 4,6-Dimethylpyrimidin-2-yl oder Chinoxalin-2-yl steht.

32. Chemische Einheit, definiert wie in Anspruch 1, wobei R^1 für ein aus der folgenden Gruppe ausgewähltes Glied steht: 2-(1H-1,2,3-Triazol-1-yl)phenyl, 2-(2H-1,2,3-Triazol-2-yl)phenyl, 2-Fluor-6-(2H-1,2,3-triazol-2-yl)phenyl, 2-Methyl-6-(2H-1,2,3-triazol-2-yl)phenyl, 3-Fluor-2-(2H-1,2,3-triazol-2-yl)phenyl, 3-Fluor-2-(1H-1,2,3-triazol-1-yl)phenyl, 3-Methoxy-2-(1H-1,2,3-triazol-1-yl)phenyl, 3-Methoxy-2-(2H-1,2,3-triazol-2-yl)phenyl, 3-Methyl-2-(2H-1,2,3-triazol-2-yl)phenyl, 3-Methyl-2-(1H-1,2,3-triazol-1-yl)phenyl, 4-Fluor-2-(2H-1,2,3-triazol-2-yl)phenyl, 4-Methoxy-2-(2H-1,2,3-triazol-2-yl)phenyl, 4-Methoxy-2-(1H-1,2,3-triazol-2-yl)phenyl, 4,5-Dimethoxy-2-[1,2,3]triazol-1-yl-phenyl, 4,5-Dimethoxy-2-[1,2,3]triazol-2-ylphenyl, 5-Chlor-2-(2H-1,2,3-triazol-2-yl)phenyl, 5-Fluor-2-(2H-1,2,3-triazol-2-yl)phenyl, 5-Methoxy-2-(2H-1,2,3-triazol-2-yl)phenyl, 5-Methyl-2-(2H-1,2,3-triazol-2-yl)phenyl, 2-(1H-1,2,4-Triazol-1-yl)-phenyl, 2-(1H-1,2,4-Triazol-5-yl)phenyl, 2-(1-Methyl-1H-1,2,4-triazol-5-yl)phenyl, 2-(1-Methyl-1H-1,2,4-triazol-3-yl)phenyl, 2-(4H-1,2,4-Triazol-3-yl)phenyl, 2-(4H-1,2,4-Triazol-4-yl)phenyl, 2-(3-Methyl-1,2,4-oxadiazol-5-yl)phenyl, 3-Fluor-2-(3-methyl-1,2,4-oxadiazol-5-yl)phenyl, 2-Fluor-6-(3-methyl-1,2,4-oxadiazol-5-yl)phenyl, 4,5-Difluor-2-(4H-1,2,4-triazol-4-yl)phenyl), 2-Fluor-6-pyrimidin-2-ylphenyl, 2-(Pyrimidin-2-yl)pyridin-3-yl, 3-Fluor-2-pyrimidin-2-ylphenyl, 4-Fluor-2-(pyrimidin-2-yl)phenyl, 4-Methoxy-2-(pyrimidin-2-yl)phenyl, 5-Fluor-2-pyrimidin-2-ylphenyl und 5-Methyl-2-pyrimidin-2-ylphenyl, und R^2 für ein aus der folgenden Gruppe ausgewähltes Glied steht: 4,6-Dimethylpyrimidin-2-yl, 4,5-Dimethylpyrimidin-2-yl, 4,6-Dimethoxypyrimidin-2-yl, 4-Methyl-pyrimidin-2-yl, 4-Methoxypyrimidin-2-yl, N,N,6-Trimethylpyrimidin-4-amin, 4-(Trifluormethyl)-pyrimidin-2-yl, 4,5,6-Trimethylpyrimidin-2-yl, 4,6-Bis(trifluormethyl)pyrimidin-2-yl, 6-Methyl-pyrimidin-4-ol, 5-Fluor-4-methylpyrimidin-2-yl, 5-Fluorpyrimidin-2-yl, 4-Methoxy-6-methylpyrimidin-2-yl, 5-Chlor-4-methylpyrimidin-2-yl, 5-Chlor-4,6-dimethylpyrimidin-2-yl, 5-Fluor-

4,6-dimethylpyrimidin-2-yl, 5-Trifluormethylpyrimidin-2-yl und 4,6-Bis[(^{2}H3)methyl]-(^{2}H)pyrimidin-2-yl.

33. Chemische Einheit, definiert wie in Anspruch 1, wobei R^1 für ein aus der folgenden Gruppe ausgewähltes Glied steht: 3-Fluor-2-(3-methyl-1,2,4-oxadiazol-5-yl)phenyl, 6-Fluor-2-(2H-1,2,3-triazol-2-yl)phenyl, 4-Methoxy-2-(2H-1,2,3-triazol-2-yl)phenyl und 3-[1,2,3]Triazol-2-ylpyridin-2-yl, und R^2 für ein aus der folgenden Gruppe ausgewähltes Glied steht: 4,6-Dimethylpyrimidin-2-yl, 5-Fluor-4,6-dimethylpyrimidin-2-yl und 5-Fluor-4-methyl-pyrimidin-2-yl.

34. Chemische Einheit, ausgewählt aus der folgenden Gruppe:

4-[5-{[2-Fluor-6-(2H-1,2,3-triazol-2-yl)phenyl]-carbonyl}hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl]-6-methoxy-N,N-dimethylpyrimidin-2-amin;
N,N-Dimethyl-6-[5-{[2-(2H-1,2,3-triazol-2-yl)-phenyl]carbonyl}hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl]-2-(trifluormethyl)pyrimidin-4-amin;
6-[5-{[2-Fluor-6-(2H-1,2,3-triazol-2-yl)phenyl]-carbonyl}hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl]-N,N-dimethyl-2-(trifluormethyl)pyrimidin-4-amin;
4-[5-{[5-Fluor-2-(2H-1,2,3-triazol-2-yl)phenyl]-carbonyl}hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl]-6-methoxy-N,N-dimethylpyrimidin-2-amin;
4-Methoxy-N,N-dimethyl-6-[5-{[2-(2H-1,2,3-triazol-2-yl)phenyl]carbonyl}hexahydropyrrolo-[3,4-c]-pyrrol-2(1H)-yl]pyrimidin-2-amin;
6-[5-{[4-Fluor-2-(2H-1,2,3-triazol-2-yl)phenyl]-carbonyl}hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl]-N,N-dimethyl-2-(trifluormethyl)pyrimidin-4-amin;
4-[5-{[4-Fluor-2-(2H-1,2,3-triazol-2-yl)phenyl]-carbonyl}hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl]-6-methoxy-N,N-dimethylpyrimidin-2-amin;
2-(4,6-Dimethylpyrimidin-2-yl)-5-{[3-(1H-pyrrol-1-yl)thiophen-2-yl]carbonyl}octahydropyrrolo[3,4-c]-pyrrol;
6-[5-{[5-Fluor-2-(2H-1,2,3-triazol-2-yl)phenyl]-carbonyl}hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl]-N,N-dimethyl-2-(trifluormethyl)pyrimidin-4-amin;
2-(4,6-Dimethylpyrimidin-2-yl)-5-[(1-phenyl-1H-pyrazol-5-yl)carbonyl]octahydropyrrolo[3,4-c]-pyrrol;
8-{[5-(4,6-Dimethylpyrimidin-2-yl)hexahydro-pyrrolo[3,4-c]pyrrol-2(1H)-yl]carbonyl}chinolin;
2-(4,6-Dimethylpyrimidin-2-yl)-5-[(3-phenyl-thiophen-2-yl)carbonyl]octahydropyrrolo[3,4-c]-pyrrol;
2-(4,6-Dimethylpyrimidin-2-yl)-5-[(3-phenylfuran-2-yl)carbonyl]octahydropyrrolo[3,4-c]pyrrol;
2-(4,6-Dimethylpyrimidin-2-yl)-5-{[2-(1H-1,2,4-triazol-5-yl)phenyl]carbonyl}octahydropyrrolo[3,4-c]pyrrol;
2-(4,6-Dimethylpyrimidin-2-yl)-5-{[3-fluor-2-(2H-1,2,3-triazol-2-yl)phenyl]carbonyl}octahydro-pyrrolo[3,4-c]pyrrol;
2-{5-[(2,4-Dimethoxyphenyl)carbonyl]hexahydro-pyrrolo[3,4-c]pyrrol-2(1H)-yl}-6-fluor-1,3-benzo-thiazol;
2-{5-[(2,4-Dimethoxyphenyl)carbonyl]hexahydro-pyrrolo[3,4-c]pyrrol-2(1H)-yl}-1,3-benzothiazol;
2-[5-{[2-(1H-Pyrazol-1-yl)phenyl]carbonyl}hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl]chinoxalin;
2-{5-[(2-Thiophen-2-ylphenyl)carbonyl]hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl}chinoxalin;
2-{5-[(2-Methylnaphthalin-1-yl)carbonyl]hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl}chinoxalin;
2-(2,3-Dihydro-1,4-benzodioxin-5-ylcarbonyl)-5-(4-phenylpyrimidin-2-yl)octahydropyrrolo[3,4-c]-pyrrol;
2-(4-Phenylpyrimidin-2-yl)-5-[(2-thiophen-2-yl-phenyl)carbonyl]octahydropyrrolo[3,4-c]pyrrol;
2-(4-Phenylpyrimidin-2-yl)-5-{[2-(1H-pyrazol-1-yl)phenyl]carbonyl}octahydropyrrolo[3,4-c]pyrrol;
2-(4-Phenylpyrimidin-2-yl)-5-{[2-(1H-pyrrol-1-yl)-phenyl]carbonyl}octahydropyrrolo[3,4-c]pyrrol;
2-[(2-Methylnaphthalin-1-yl)carbonyl]-5-(4-phenyl-pyrimidin-2-yl)octahydropyrrolo[3,4-c]pyrrol;
2-(5-Chinoxalin-2-ylhexahydropyrrolo[3,4-c]pyrrol-2-carbonyl)benzonitril;
2-[5-{[2-(1H-Pyrrol-1-yl)phenyl]carbonyl}hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl]chinoxalin;
2-{5-[(4'-Fluorbiphenyl-2-yl)carbonyl]hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl}chinoxalin;
2-{5-[(3'-Fluorbiphenyl-2-yl)carbonyl]hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl}chinoxalin;
2-{5-[(2-Methylphenyl)carbonyl]hexahydropyrrolo-[3,4-c]pyrrol-2(1H)-yl}chinoxalin;
2-(Biphenyl-2-ylcarbonyl)-5-(4-furan-2-yl-pyrimidin-2-yl)octahydropyrrolo[3,4-c]pyrrol;
2-(4-Methylpyrimidin-2-yl)-5-[(2-thiophen-2-yl-phenyl)carbonyl]octahydropyrrolo[3,4-c]pyrrol;
2-{5-[(2-Thiophen-2-ylphenyl)carbonyl]hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl}chinolin;
2-(4-Furan-2-ylpyrimidin-2-yl)-5-[(2-thiophen-2-ylphenyl)carbonyl]octahydropyrrolo[3,4-c]pyrrol;
2-{5-[(2-Ethylphenyl)carbonyl]hexahydropyrrolo-[3,4-c]pyrrol-2(1H)-yl}chinoxalin;
2-[5-(1H-Indol-7-ylcarbonyl)hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl]chinoxalin;
2-[(2-Thiophen-2-ylphenyl)carbonyl]-5-(4-thiophen-2-ylpyrimidin-2-yl)octahydropyrrolo[3,4-c]pyrrol;
2-(Biphenyl-2-ylcarbonyl)-5-(4-thiophen-2-ylpyrimidin-2-yl)octahydropyrrolo[3,4-c]pyrrol;
[5-(4,6-Dimethylpyrimidin-2-yl)hexahydropyrrolo-[3,4-c]pyrrol-2-yl]-[2-(1-methyl-1H-imidazol-2-yl)phenyl]methanon;

2-[(2-Bromphenyl)carbonyl]-5-(4-phenylpyrimidin-2-yl)octahydropyrrolo[3,4-c]pyrrol;
2-{5-[(3'-Chlorbiphenyl-2-yl)carbonyl]hexahydro-pyrrolo[3,4-c]pyrrol-2(1H)-yl}chinoxalin;
2-{5-[(2-Bromphenyl)carbonyl]hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl}chinoxalin;
2-(4,6-Dimethylpyrimidin-2-yl)-5-[(2-thiophen-2-ylphenyl)carbonyl]octahydropyrrolo[3,4-c]pyrrol;
2-(Biphenyl-2-ylcarbonyl)-5-(4,6-dimethylpyrimidin-2-yl)octahydropyrrolo[3,4-c]pyrrol;
2-(4-Methoxypyrimidin-2-yl)-5-[(2-thiophen-2-yl-phenyl)carbonyl]octahydropyrrolo[3,4-c]pyrrol;
6-Fluor-2-{5-[(2-thiophen-2-ylphenyl)carbonyl]-hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl}-1,3-benzothiazol;
2-(4,6-Dimethylpyrimidin-2-yl)-5-[(2-methylnaphthalin-1-yl)carbonyl]octahydropyrrolo[3,4-c]-pyrrol;
2-[(3'-Fluorbiphenyl-2-yl)carbonyl]-5-(4-methyl-pyrimidin-2-yl)octahydropyrrolo[3,4-c]pyrrol;
2-(4-Methoxypyrimidin-2-yl)-5-[(2-methylnaphthalin-1-yl)carbonyl]octahydropyrrolo[3,4-c]pyrrol;
2-[(2-Methylnaphthalin-1-yl)carbonyl]-5-(4-methyl-pyrimidin-2-yl)octahydropyrrolo[3,4-c]pyrrol;
2-[(3'-Fluorbiphenyl-2-yl)carbonyl]-5-(4-methoxy-pyrimidin-2-yl)octahydropyrrolo[3,4-c]pyrrol;
2-(4,6-Dimethylpyrimidin-2-yl)-5-[(3'-fluor-biphenyl-2-yl)carbonyl]octahydropyrrolo[3,4-c]-pyrrol;
[5-(4,6-Dimethylpyrimidin-2-yl)hexahydropyrrolo-[3,4-c]pyrrol-2-yl]-(2-fluorphenyl)methanon;
2-(4-Methoxypyrimidin-2-yl)-5-[(4'-methylbiphenyl-2-yl)carbonyl]octahydropyrrolo[3,4-c]pyrrol;
2-[(3'-Chlorbiphenyl-2-yl)carbonyl]-5-(4-methoxy-pyrimidin-2-yl)octahydropyrrolo[3,4-c]pyrrol;
2-[(2-Ethoxynaphthalin-1-yl)carbonyl]-5-(4-methoxypyrimidin-2-yl)octahydropyrrolo[3,4-c]pyrrol;
2-[(4-Fluornaphthalin-1-yl)carbonyl]-5-(4-methoxy-pyrimidin-2-yl)octahydropyrrolo[3,4-c]pyrrol;
2-(4-Methoxypyrimidin-2-yl)-5-(naphthalin-1-yl-carbonyl)octahydropyrrolo[3,4-c]pyrrol;
2-[(2-Ethoxyphenyl)carbonyl]-5-(4-methoxy-pyrimidin-2-yl)octahydropyrrolo[3,4-c]pyrrol;
2-[(2-Methoxynaphthalin-1-yl)carbonyl]-5-(4-methoxypyrimidin-2-yl)octahydropyrrolo[3,4-c]-pyrrol;
2-(Biphenyl-2-ylcarbonyl)-5-[4-(lH-pyrazol-4-yl)-pyrimidin-2-yl]octahydropyrrolo[3,4-c]pyrrol;
2-[4-(1H-Pyrazol-4-yl)pyrimidin-2-yl]-5-[(2-thiophen-2-ylphenyl)carbonyl]octahydropyrrolo[3,4-c]pyrrol;
2-(3,6-Dimethylpyrazin-2-yl)-5-[(2-thiophen-2-ylphenyl)carbonyl]octahydropyrrolo[3,4-c]pyrrol;
2-(Biphenyl-2-ylcarbonyl)-5-(3,5-dimethylpyrazin-2-yl)octahydropyrrolo[3,4-c]pyrrol;
2-Methyl-3-{5-[(2-thiophen-2-ylphenyl)carbonyl]-hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl}chinoxalin;
2-[5-(Biphenyl-2-ylcarbonyl)hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl]-3-methylchinoxalin;
2-(4,6-Dimethylpyrimidin-2-yl)-5-{[2-(1H-pyrazol-1-yl)phenyl]carbonyl}octahydropyrrolo[3,4-c]-pyrrol;
2-(4,6-Dimethoxypyrimidin-2-yl)-5-[(2-fluor-6-pyrimidin-2-ylphenyl)carbonyl]octahydropyrrolo-[3,4-c]pyrrol;
2-(4,6-Dimethylpyrimidin-2-yl)-5-[(2-pyridin-2-ylphenyl)carbonyl]octahydropyrrolo[3,4-c]pyrrol;
2-(4,6-Dimethoxypyrimidin-2-yl)-5-[(2-pyridin-2-ylphenyl)carbonyl]octahydropyrrolo[3,4-c]pyrrol;
2-(4,6-Dimethoxypyrimidin-2-yl)-5-[(5-fluor-2-pyrimidin-2-ylphenyl)carbonyl]octahydropyrrolo-[3,4-c]pyrrol;
2-(4,6-Dimethoxypyrimidin-2-yl)-5-{[5-fluor-2-(2H-1,2,3-triazol-2-yl)phenyl]carbonyl}octahydropyrrolo[3,4-c]pyrrol;
2-(4,6-Dimethylpyrimidin-2-yl)-5-[(2-fluor-6-pyrimidin-2-ylphenyl)carbonyl]octahydropyrrolo-[3,4-c]pyrrol;
2-(4,6-Dimethylpyrimidin-2-yl)-5-[(5-fluor-2-pyrimidin-2-ylphenyl)carbonyl]octahydropyrrolo-[3,4-c]pyrrol;
2-(4,6-Dimethylpyrimidin-2-yl)-5-{[5-fluor-2-(2H-1,2,3-triazol-2-yl)phenyl]carbonyl}octahydropyrrolo[3,4-c]pyrrol;
2-(4,6-Dimethylpyrimidin-2-yl)-5-[(2-ethylphenyl)-carbonyl]octahydropyrrolo[3,4-c]pyrrol;
2-(4,6-Dimethylpyrimidin-2-yl)-5-[(2-ethoxy-naphthalin-1-yl)carbonyl]octahydropyrrolo[3,4-c]-pyrrol;
2-(4,6-Dimethoxypyrimidin-2-yl)-5-{[2-(1H-pyrazol-1-yl)phenyl]carbonyl}octahydropyrrolo[3,4-c]-pyrrol;
2-(4,6-Dimethylpyrimidin-2-yl)-5-[(5-phenyl-1,3-oxazol-4-yl)carbonyl]octahydropyrrolo[3,4-c]-pyrrol;
2-(4,6-Dimethylpyrimidin-2-yl)-5-[(5-phenyl-isoxazol-4-yl)carbonyl]octahydropyrrolo[3,4-c]-pyrrol;
[5-(2-Isopropyl-6-methylpyrimidin-4-yl)hexahydropyrrolo[3,4-c]pyrrol-2-yl]-(2-[1,2,3]triazol-2-ylphenyl)methanon;
2-[(2-Bromphenyl)carbonyl]-5-(4,6-dimethylpyrimidin-2-yl)octahydropyrrolo[3,4-c]pyrrol;
2-(4,6-Dimethylpyrimidin-2-yl)-5-{[2-(2H-1,2,3-triazol-2-yl)phenyl]carbonyl}octahydropyrrolo[3,4-c]pyrrol;
2-(4,6-Dimethoxypyrimidin-2-yl)-5-{[2-(2H-1,2,3-triazol-2-yl)phenyl]carbonyl}octahydropyrrolo[3,4-c]pyrrol;
2-[5-{[2-(4H-1,2,4-Triazol-3-yl)phenyl]carbonyl}-hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl]chinoxalin;
2-[5-{[2-(4H-1,2,4-Triazol-3-yl)phenyl]carbonyl}hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl]-1,3-benzoxazol;
2-(4-Methylpyrimidin-2-yl)-5-{[2-(4H-1,2,4-triazol-3-yl)phenyl]carbonyl}octahydropyrrolo[3,4-c]pyrrol;
2-(4,6-Dimethylpyrimidin-2-yl)-5-[(2-ethoxyphenyl)carbonyl]octahydropyrrolo[3,4-c]pyrrol;
2-(4,6-Dimethylpyrimidin-2-yl)-5-{[4-fluor-2-(trifluormethyl)phenyl]carbonyl}octahydropyrrolo[3,4-c]pyrrol;
2-(4,6-Dimethylpyrimidin-2-yl)-5-[(4-fluornaphthalin-1-yl)carbonyl]octahydropyrrolo[3,4-c]-pyrrol;
2-(4,6-Dimethylpyrimidin-2-yl)-5-{[2-(1-methylethyl)phenyl]carbonyl}octahydropyrrolo[3,4-c]-pyrrol;
2-(4,6-Dimethylpyrimidin-2-yl)-5-[(3-methoxy-2-methylphenyl)carbonyl]octahydropyrrolo[3,4-c]-pyrrol;
2-(4,6-Dimethylpyrimidin-2-yl)-5-(naphthalin-1-ylcarbonyl)octahydropyrrolo[3,4-c]pyrrol;
2-[5-{[2-(4H-1,2,4-Triazol-3-yl)phenyl]carbonyl}-hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl]-3-(trifluorme-

thyl)chinoxalin;
2-Methyl-3-[5-{[2-(4H-1,2,4-triazol-3-yl)phenyl]-carbonyl}hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl]-chinoxalin;
2-[6-Methyl-2-(trifluormethyl)pyrimidin-4-yl]-5-{[2-(4H-1,2,4-triazol-3-yl)phenyl]carbonyl}-octahydropyrrolo[3,4-c]pyrrol;
2-[6-Methyl-2-(trifluormethyl)pyrimidin-4-yl]-5-{[2-(2H-1,2,3-triazol-2-yl)phenyl]carbonyl}-octahydropyrrolo[3,4-c]pyrrol;
2-{[2-Fluor-6-(2H-1,2,3-triazol-2-yl)phenyl]-carbonyl}-5-[6-methyl-2-(trifluormethyl)pyrimidin-4-yl]octahydropyrrolo[3,4-c]pyrrol;
2-{[4-Fluor-2-(2H-1,2,3-triazol-2-yl)phenyl]-carbonyl}-5-[6-methyl-2-(trifluormethyl)pyrimidin-4-yl]octahydropyrrolo[3,4-c]pyrrol;
2-(6-Methylpyrazin-2-yl)-5-{[5-methyl-2-(2H-1,2,3-triazol-2-yl)phenyl]carbonyl}octahydropyrrolo[3,4-c]pyrrol;
2-(3,6-Dimethylpyrazin-2-yl)-5-{[2-fluor-6-(2H-1,2,3-triazol-2-yl)phenyl]carbonyl}octahydro-pyrrolo[3,4-c]pyrrol;
2-(4,6-Dimethylpyrimidin-2-yl)-5-[(5-methyl-2-pyrimidin-2-ylphenyl)carbonyl]octahydropyrrolo-[3,4-c]pyrrol;
2-(3,6-Dimethylpyrazin-2-yl)-5-[(5-methyl-2-pyrimidin-2-ylphenyl)carbonyl]octahydropyrrolo-[3,4-c]pyrrol;
2-(3,6-Dimethylpyrazin-2-yl)-5-{[4-fluor-2-(2H-1,2,3-triazol-2-yl)phenyl]carbonyl}octahydropyrrolo[3,4-c]pyrrol;
2-(4,6-Dimethylpyrimidin-2-yl)-5-{[5-iod-2-(2H-1,2,3-triazol-2-yl)phenyl]carbonyl}octahydropyrrolo[3,4-c]pyrrol;
4-[5-{[2-Fluor-6-(2H-1,2,3-triazol-2-yl)phenyl]-carbonyl}hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl]-N,N-dimethyl-6-(trifluormethyl)pyrimidin-2-amin;
2-(4,6-Dimethylpyrimidin-2-yl)-5-{[2-fluor-6-(2H-1,2,3-triazol-2-yl)phenyl]carbonyl}octahydropyrrolo[3,4-c]pyrrol;
N,N-Dimethyl-4-{5-[(5-methyl-2-pyrimidin-2-yl-phenyl)carbonyl]hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl}-6-(trifluormethyl)pyrimidin-2-amin;
4-{5-[(5-Fluor-2-pyrimidin-2-ylphenyl)carbonyl]-hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl}-N,N-dimethyl-6-(trifluormethyl)pyrimidin-2-amin;
4-[5-{[5-Fluor-2-(2H-1,2,3-triazol-2-yl)phenyl]-carbonyl}hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl]-N,N-dimethyl-6-(trifluormethyl)pyrimidin-2-amin;
4-[5-{[4-Fluor-2-(2H-1,2,3-triazol-2-yl)phenyl]-carbonyl}hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl]-N,N-dimethyl-6-(trifluormethyl)pyrimidin-2-amin;
2-[(5-Methyl-2-pyrimidin-2-ylphenyl)carbonyl]-5-[6-methyl-2-(trifluormethyl)pyrimidin-4-yl]-octahydropyrrolo[3,4-c]pyrrol;
2-[(5-Fluor-2-pyrimidin-2-ylphenyl)carbonyl]-5-(4-phenylpyrimidin-2-yl)octahydropyrrolo[3,4-c]-pyrrol;
2-{[5-Fluor-2-(2H-1,2,3-triazol-2-yl)phenyl]-carbonyl}-5-[6-methyl-2-(trifluormethyl)pyrimidin-4-yl]octahydropyrrolo[3,4-c]pyrrol;
[5-(2,6-Dimethylpyrimidin-4-yl)hexahydropyrrolo-[3,4-c]pyrrol-2-yl]-(5-fluor-2-[1,2,3]triazol-2-ylphenyl)methanon;
4-{5-[(2-Fluor-6-pyrimidin-2-ylphenyl)carbonyl]-hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl}-N,N-dimethyl-6-(trifluormethyl)pyrimidin-2-amin;
2-[(2-Fluor-6-pyrimidin-2-ylphenyl)carbonyl]-5-[6-methyl-2-(trifluormethyl)pyrimidin-4-yl]octahydropyrrolo[3,4-c]pyrrol;
2-(4,6-Dimethylpyrimidin-2-yl)-5-{[4-fluor-2-(2H-1,2,3-triazol-2-yl)phenyl]carbonyl}octahydropyrrolo[3,4-c]pyrrol;
N,N,6-Trimethyl-2-[5-{[2-(2H-1,2,3-triazol-2-yl)-phenyl]carbonyl}hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl]pyrimidin-4-amin;
N,N,4-Trimethyl-6-[5-{[2-(2H-1,2,3-triazol-2-yl)-phenyl]carbonyl}hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl]pyrimidin-2-amin;
N,N-Dimethyl-4-[5-{[2-(2H-1,2,3-triazol-2-yl)-phenyl]carbonyl}hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl]-6-(trifluormethyl)pyrimidin-2-amin;
2-(2,6-Dimethylpyrimidin-4-yl)-5-{[2-(2H-1,2,3-triazol-2-yl)phenyl]carbonyl}octahydropyrrolo[3,4-c]pyrrol;
[5-(3,6-Dimethylpyrazin-2-yl)hexahydropyrrolo[3,4-c]pyrrol-2-yl]-(5-methyl-2-[1,2,3]triazol-2-ylphenyl)methanon;
2-[5-{[5-Fluor-2-(2H-1,2,3-triazol-2-yl)phenyl]-carbonyl}hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl]-N,N,6-trimethylpyrimidin-4-amin;
2-(5-Methoxypyridin-2-yl)-5-[(2-thiophen-2-ylphenyl)carbonyl]octahydropyrrolo[3,4-c]pyrrol;
2-[(2-Ethoxynaphthalin-1-yl)carbonyl]-5-(4-phenyl-pyrimidin-2-yl)octahydropyrrolo[3,4-c]pyrrol;
2-{[5-Methyl-2-(2H-1,2,3-triazol-2-yl)phenyl]-carbonyl}-5-(4-phenylpyrimidin-2-yl)octahydropyrrolo[3,4-c]pyrrol;
(4-Chlor-2-[1,2,3]triazol-2-ylphenyl)-[5-(4,6-dimethylpyrimidin-2-yl)hexahydropyrrolo[3,4-c]-pyrrol-2-yl]metha-

non;
2-(4,6-Dimethoxypyrimidin-2-yl)-5-{[5-methyl-2-(2H-l,2,3-triazol-2-yl)phenyl]carbonyl}octahydropyrrolo[3,4-c]pyrrol;
2-(4,6-Dimethylpyrimidin-2-yl)-5-{[5-methyl-2-(2H-1,2,3-triazol-2-yl)phenyl]carbonyl}octahydropyrrolo[3,4-c]pyrrol;
2-(4-Phenylpyrimidin-2-yl)-5-{[2-(2H-1,2,3-triazol-2-yl)phenyl]carbonyl}octahydropyrrolo[3,4-c]pyrrol;
2-(4,6-Dimethylpyrimidin-2-yl)-5-{[5-(2-fluor-phenyl)-2-methyl-l,3-thiazol-4-yl]carbonyl}-octahydropyrrolo[3,4-c]pyrrol;
2-[(2-Thiophen-2-ylphenyl)carbonyl]-5-[6-(trifluormethyl)pyridin-2-yl]octahydropyrrolo[3,4-c]-pyrrol;
2-(6-Methylpyridin-2-yl)-5-[(2-thiophen-2-ylphenyl)carbonyl]octahydropyrrolo[3,4-c]pyrrol;
2-(4-Methylpyrimidin-2-yl)-5-{[2-(2H-1,2,3-triazol-2-yl)phenyl]carbonyl}octahydropyrrolo[3,4-c]pyrrol;
2-(4-Methylpyridin-2-yl)-5-[(2-thiophen-2-ylphenyl)carbonyl]octahydropyrrolo[3,4-c]pyrrol;
2-(6-Methoxypyridin-2-yl)-5-[(2-thiophen-2-ylphenyl)carbonyl]octahydropyrrolo[3,4-c]pyrrol;
2-(4,6-Dimethoxypyrimidin-2-yl)-5-[(2-thiophen-2-ylphenyl)carbonyl]octahydropyrrolo[3,4-c]pyrrol;
2-{5-[(2-Thiophen-2-ylphenyl)carbonyl]hexahydropyrrolo[3,4-clpyrrol-2(1H)-yl1-1,3-benzoxazol;
2-[(2-Thiophen-2-ylphenyl)carbonyl]-5-[3-(trifluormethyl)pyridin-2-yl]octahydropyrrolo[3,4-c]pyrrol;
[5-(4-Phenylpyrimidin-2-yl)hexahydropyrrolo[3,4-c]pyrrol-2-yl]-[2-(4H-[1,2,4]triazol-3-yl)phenyl]-methanon;
2-(4,6-Dimethoxypyrimidin-2-yl)-5-{[5-(2-fluorphenyl)-2-methyl-l,3-thiazol-4-yl]carbonyl}-octahydropyrrolo[3,4-c]pyrrol;
2-(4-Thiophen-2-ylpyrimidin-2-yl)-5-{[2-(2H-1,2,3-triazol-2-yl)phenyl]carbonyl}octahydropyrrolo[3,4-c]pyrrol;
2-[5-{[2-(2H-1,2,3-Triazol-2-yl)phenyl]carbonyl}-hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl]-1,3-benzoxazol;
2-{5-[(2-Ethoxynaphthalin-1-yl)carbonyl]hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl}chinoxalin;
2-{5-[(5-Fluor-2-pyrimidin-2-ylphenyl)carbonyl]-hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl}chinoxalin;
2-(6-Ethoxypyridin-2-yl)-5-{[2-(2H-1,2,3-triazol-2-yl)phenyl]carbonyl}octahydropyrrolo[3,4-c]-pyrrol;
2-[(5-Fluor-2-pyrimidin-2-ylphenyl)carbonyl]-5-[4-(trifluormethyl)pyrimidin-2-yl]octahydropyrrolo-[3,4-c]pyrrol;
2-[5-{[2-(2H-1,2,3-Triazol-2-yl)phenyl]carbonyl}-hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl]chinoxalin;
2-[(5-Fluor-2-pyrimidin-2-ylphenyl)carbonyl]-5-(4-methoxypyrimidin-2-yl)octahydropyrrolo[3,4-c]-pyrrol;
2-(4-Furan-2-ylpyrimidin-2-yl)-5-{[2-(2H-1,2,3-triazol-2-yl)phenyl]carbonyl}octahydropyrrolo[3,4-c]pyrrol;
2-(5-Fluorpyridin-2-yl)-5-{[2-(2H-1,2,3-triazol-2-yl)phenyl]carbonyl}octahydropyrrolo[3,4-c]pyrrol;
2-{[2-(2H-1,2,3-Triazol-2-yl)phenyl]carbonyl}-5-[4-(trifluormethyl)pyrimidin-2-yl]octahydropyrrolo[3,4-c]pyrrol;
2-(4-Methoxypyrimidin-2-yl)-5-{[2-(1H-1,2,4-triazol-5-yl)phenyl]carbonyl}octahydropyrrolo[3,4-c]pyrrol;
2-(3,6-Dimethylpyrazin-2-yl)-5-{[2-(2H-1,2,3-triazol-2-yl)phenyl]carbonyl}octahydropyrrolo[3,4-c]pyrrol;
2-(4-Methoxypyrimidin-2-yl)-5-{[2-(2H-1,2,3-triazol-2-yl)phenyl]carbonyl}octahydropyrrolo[3,4-c]pyrrol;
2-{[5-Chlor-2-(2H-1,2,3-triazol-2-yl)phenyl]-carbonyl}-5-(4,6-dimethylpyrimidin-2-yl)octahydropyrrolo[3,4-c]pyrrol;
2-{[4-Fluor-2-(2H-1,2,3-triazol-2-yl)phenyl]-carbonyl}-5-(6-methylpyrazin-2-yl)octahydropyrrolo[3,4-c]pyrrol;
2-{[4-Fluor-2-(2H-1,2,3-triazol-2-yl)phenyl]-carbonyl}-5-(4-methoxypyrimidin-2-yl)octahydropyrrolo[3,4-c]pyrrol;
2-(4,6-Dimethoxypyrimidin-2-yl)-5-{[4-fluor-2-(2H-1,2,3-triazol-2-yl)phenyl]carbonyl}octahydropyrrolo[3,4-c]pyrrol;
[5-(4,6-Dimethylpyrimidin-2-yl)hexahydropyrrolo-[3,4-c]pyrrol-2-yl]-(5-methoxy-2-[1,2,3]triazol-2-ylphenyl)methanon;
(2-Fluor-6-[1,2,3]triazol-2-ylphenyl)-[5-(4-methoxypyrimidin-2-yl)hexahydropyrrolo[3,4-c]-pyrrol-2-yl]methanon;
6-Chlor-2-{5-[(2,4-dimethoxyphenyl)carbonyl]-hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl}-1,3-benzothiazol;
2-(Biphenyl-2-ylcarbonyl)-5-(4-phenylpyrimidin-2-yl)octahydropyrrolo[3,4-c]pyrrol;
2-{5-[(2,6-Dimethoxyphenyl)carbonyl]hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl}chinoxalin;
2-[(2,6-Dimethoxyphenyl)carbonyl]-5-(4-phenylpyrimidin-2-yl)octahydropyrrolo[3,4-c]pyrrol;
2-[(2,4-Dimethoxyphenyl)carbonyl]-5-(4-phenylpyrimidin-2-yl)octahydropyrrolo[3,4-c]pyrrol;
2-[5-(Biphenyl-2-ylcarbonyl)hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl]chinoxalin;
2-[5-(Biphenyl-2-ylcarbonyl)hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl]-1,3-benzothiazol;
2-{5-[(2,4-Dimethoxyphenyl)carbonyl]hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl}-4-methylchinolin;
2-{5-[(2,4-Dimethoxyphenyl)carbonyl]hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl}-6-methoxy-1,3-benzothiazol;
2-{5-[(2,4-Dimethoxyphenyl)carbonyl]hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl}-6-methyl-1,3-benzothiazol;
2-(Biphenyl-2-ylcarbonyl)-5-(6-methylpyridin-2-yl)octahydropyrrolo[3,4-c]pyrrol;
2-(Biphenyl-2-ylcarbonyl)-5-(4-methylpyrimidin-2-yl)octahydropyrrolo[3,4-c]pyrrol;
2-[5-(Biphenyl-2-ylcarbonyl)hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl]chinolin;
2-[5-(Biphenyl-2-ylcarbonyl)hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl]-6-fluor-l,3-benzothiazol;

2-(Biphenyl-2-ylcarbonyl)-5-(4-methoxypyrimidin-2-yl)octahydropyrrolo[3,4-c]pyrrol;
2-[5-(Biphenyl-2-ylcarbonyl)hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl]-4-methylchinolin;
(2,4-Dimethoxyphenyl)-[5-(4-methoxypyrimidin-2-yl)hexahydropyrrolo[3,4-c]pyrrol-2-yl]methanon;
(5-benzoxazol-2-ylhexahydropyrrolo[3,4-c]pyrrol-2-yl)-(2-methoxyphenyl)methanon;
(2-Pyridin-3-ylphenyl)-(5-chinoxalin-2-ylhexahydropyrrolo[3,4-c]pyrrol-2-yl)methanon;
[5-(4,6-Dimethylpyrimidin-2-yl)hexahydropyrrolo-[3,4-c]pyrrol-2-yl]-[2-(1H-imidazol-2-yl)phenyl]-methanon;
(5-Benzoxazol-2-ylhexahydropyrrolo[3,4-c]pyrrol-2-yl)-(2,4-dimethoxyphenyl)methanon;
(5-Benzoxazol-2-ylhexahydropyrrolo[3,4-c]pyrrol-2-yl)biphenyl-2-ylmethanon;
(2,4-Dimethoxyphenyl)-[5-(6-methylpyridin-2-yl)-hexahydropyrrolo[3,4-c]pyrrol-2-yl]methanon;
(2,4-Dimethoxyphenyl)-[5-(4-methylpyrimidin-2-yl)-hexahydropyrrolo[3,4-c]pyrrol-2-yl]methanon;
Biphenyl-2-yl-[5-(6-methoxybenzothiazol-2-yl)-hexahydropyrrolo[3,4-c]pyrrol-2-yl]methanon;
Biphenyl-2-yl-[5-(6-methylbenzothiazol-2-yl)-hexahydropyrrolo[3,4-c]pyrrol-2-yl]methanon;
[5-(6-Chlorbenzothiazol-2-yl)hexahydropyrrolo[3,4-c]pyrrol-2-yl]-(2,6-dimethoxyphenyl)methanon;
Biphenyl-2-yl-[5-(6-chlorbenzothiazol-2-yl)-hexahydropyrrolo[3,4-c]pyrrol-2-yl]methanon;
(2,4-Dimethoxyphenyl)-(5-chinoxalin-2-ylhexahydropyrrolo[3,4-c]pyrrol-2-yl)methanon;
(5-Benzoxazol-2-ylhexahydropyrrolo[3,4-c]pyrrol-2-yl)-(2,6-dimethoxyphenyl)methanon;
(4'-Methylbiphenyl-2-yl)-(5-chinoxalin-2-ylhexahydropyrrolo[3,4-c]pyrrol-2-yl)methanon;
(5-Chinoxalin-2-ylhexahydropyrrolo[3,4-c]pyrrol-2-yl)-(4'-trifluormethylbiphenyl-2-yl)methanon;
(4'-Methylbiphenyl-2-yl)-[5-(4-phenylpyrimidin-2-yl)hexahydropyrrolo[3,4-c]pyrrol-2-yl]methanon;
[5-(4-Phenylpyrimidin-2-yl)hexahydropyrrolo[3,4-c]pyrrol-2-yl]-(4'-trifluormethylbiphenyl-2-yl)methanon;
(4-Methoxy-2-methylphenyl)-(5-chinoxalin-2-ylhexahydropyrrolo[3,4-c]pyrrol-2-yl)methanon;
(3'-Chlorbiphenyl-2-yl)-[5-(4-phenylpyrimidin-2-yl)hexahydropyrrolo[3,4-c]pyrrol-2-yl]methanon;
(2-Methoxyphenyl)-[5-(4-methoxypyrimidin-2-yl)hexahydropyrrolo[3,4-c]pyrrol-2-yl]methanon;
(2-Methoxyphenyl)-[5-(4-methylpyrimidin-2-yl)hexahydropyrrolo[3,4-c]pyrrol-2-yl]methanon;
[5-(4,6-Dimethylpyrimidin-2-yl)hexahydropyrrolo-[3,4-c]pyrrol-2-yl]-(2-methoxyphenyl)methanon;
2-[5-(4,6-Dimethylpyrimidin-2-yl)hexahydropyrrolo-[3,4-c]pyrrol-2-carbonyl]benzonitril;
Cinnolin-4-yl-[5-(4,6-dimethylpyrimidin-2-yl)hexahydropyrrolo[3,4-c]pyrrol-2-yl]methanon;
(5-Fluor-2-pyrimidin-2-ylphenyl)-[5-(6-methyl-2-trifluormethylpyrimidin-4-yl)hexahydropyrrolo[3,4-c]pyrrol-2-yl]methanon;
[5-(4,6-Dimethylpyrimidin-2-yl)hexahydropyrrolo-[3,4-c]pyrrol-2-yl]-(2-[1,2,3]triazol-1-ylphenyl)-methanon;
[5-(4,6-Dimethylpyrimidin-2-yl)hexahydropyrrolo-[3,4-c]pyrrol-2-yl]-(2-[1,2,4]triazol-1-ylphenyl)-methanon;
[5-(4,6-Dimethoxypyrimidin-2-yl)hexahydropyrrolo-[3,4-c]pyrrol-2-yl]-(3-phenylpyridin-2-yl)methanon;
[5-(4,6-Dimethylpyrimidin-2-yl)hexahydropyrrolo-[3,4-c]pyrrol-2-yl]-(3-phenylpyridin-2-yl)methanon;
[5-(6-Methyl-2-propylpyrimidin-4-yl)hexahydropyrrolo[3,4-c]pyrrol-2-yl]-(2-[1,2,3]triazol-2-ylphenyl)methanon;
[5-(2-Methylpyrimidin-4-yl)hexahydropyrrolo[3,4-c]pyrrol-2-yl]-(2-[1,2,3]triazol-2-ylphenyl)-methanon;
[5-(6-Methylpyrazin-2-yl)hexahydropyrrolo[3,4-c]-pyrrol-2-yl]-(2-[1,2,3]triazol-2-ylphenyl)-methanon;
[5-(3,6-Dimethylpyrazin-2-yl)hexahydropyrrolo[3,4-c]pyrrol-2-yl]-(5-fluor-2-pyrimidin-2-ylphenyl)-methanon;
[5-(3,6-Dimethylpyrazin-2-yl)hexahydropyrrolo[3,4-c]pyrrol-2-yl]-[2-(2H-[1,2,4]triazol-3-yl)phenyl]-methanon;
[5-(2-Pyrrolidin-1-yl-6-trifluormethylpyrimidin-4-yl)hexahydropyrrolo[3,4-c]pyrrol-2-yl]-(2-[1,2,3]-triazol-2-ylphenyl)methanon;
2-(2,6-Dimethylpyrimidin-4-yl)-5-{[5-fluor-2-(2H-1,2,3-triazol-2-yl)phenyl]carbonyl}octahydropyrrolo[3,4-c]pyrrol;
[5-(4,6-Dimethylpyrimidin-2-yl)hexahydropyrrolo-[3,4-c]pyrrol-2-yl]-(2-nitro-6-[1,2,3]triazol-2-ylphenyl)methanon;
[5-(4,6-Dimethylpyrimidin-2-yl)hexahydropyrrolo-[3,4-c]pyrrol-2-yl]-(2-furan-2-ylphenyl)methanon;
[5-(4,6-Dimethylpyrimidin-2-yl)hexahydropyrrolo-[3,4-c]pyrrol-2-yl]-(2-methyl-5-phenylthiazol-4-yl)methanon;
2-[(2,3-Dimethylphenyl)carbonyl]-5-(4,6-dimethylpyrimidin-2-yl)octahydropyrrolo[3,4-c]pyrrol;
2-(4,6-Dimethylpyrimidin-2-yl)-5-[(3-fluor-2-methylphenyl)carbonyl]octahydropyrrolo[3,4-c]-pyrrol;
2-(4,6-Dimethylpyrimidin-2-yl)-5-{[5-fluor-2-(trifluormethyl)phenyl]carbonyl}octahydropyrrolo[3,4-c]pyrrol;
2-[(4-Chlor-2-methoxyphenyl)carbonyl]-5-(4,6-dimethylpyrimidin-2-yl)octahydropyrrolo[3,4-c]-pyrrol;
2-[(5-Chlor-2-methylphenyl)carbonyl]-5-(4,6-dimethylpyrimidin-2-yl)octahydropyrrolo[3,4-c]-pyrrol;
2-[(2,5-Dimethylphenyl)carbonyl]-5-(4,6-dimethylpyrimidin-2-yl)octahydropyrrolo[3,4-c]pyrrol;
2-[(2,6-Dimethylphenyl)carbonyl]-5-(4,6-dimethylpyrimidin-2-yl)octahydropyrrolo[3,4-c]pyrrol;
2-(4,6-Dimethylpyrimidin-2-yl)-5-[(5-fluor-2-methylphenyl)carbonyl]octahydropyrrolo[3,4-c]pyrrol;
2-[(2,4-Dimethylphenyl)carbonyl]-5-(4,6-dimethylpyrimidin-2-yl)octahydropyrrolo[3,4-c]pyrrol;
2-[(2,5-Diethoxyphenyl)carbonyl]-5-(4,6-dimethylpyrimidin-2-yl)octahydropyrrolo[3,4-c]pyrrol;
2-[(2,6-Diethoxyphenyl)carbonyl]-5-(4,6-dimethylpyrimidin-2-yl)octahydropyrrolo[3,4-c]pyrrol;
2-[(2-Chlor-6-methylphenyl)carbonyl]-5-(4,6-dimethylpyrimidin-2-yl)octahydropyrrolo[3,4-c]-pyrrol;

(5-(4,6-Dimethylpyrimidin-2-yl)hexahydropyrrolo-[3,4-c]pyrrol-2(1H)-yl)-(4-fluor-2-(pyrimidin-2-yl)phenyl)methanon;
(5-(4,6-Dimethylpyrimidin-2-yl)hexahydropyrrolo-[3,4-c]pyrrol-2(1H)-yl)-(3-fluor-2-iodphenyl)-methanon;
2-(4,6-Dimethylpyrimidin-2-yl)-5-{[2-(trifluormethyl)pyridin-3-yl]carbonyl}octahydropyrrolo[3,4-c]pyrrol;
(2-Brompyridin-3-yl)-(5-(4,6-dimethylpyrimidin-2-yl)hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl)-methanon;
(5-(4,6-Dimethylpyrimidin-2-yl)hexahydropyrrolo-[3,4-c]pyrrol-2(1H)-yl)-(2-(pyrimidin-2-yl)pyridin-3-yl)methanon;
(5-(4,6-Dimethylpyrimidin-2-yl)hexahydropyrrolo-[3,4-c]pyrrol-2(1H)-yl)-(2-(1-(tetrahydro-2H-pyran-2-yl)-1H-pyrazol-5-yl)pyridin-3-yl)methanon;
(2-(1H-Pyrazol-5-yl)pyridin-3-yl)-(5-(4,6-dimethylpyrimidin-2-yl)hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl)methanon;
(2-(2H-1,2,3-Triazol-2-yl)pyridin-3-yl)-(5-(4,6-dimethylpyrimidin-2-yl)hexahydropyrrolo[3,4-c]-pyrrol-2(1H)-yl)methanon;
(3-Fluor-2-(pyrimidin-2-yl)phenyl)-(5-(4,5,6-trimethylpyrimidin-2-yl)hexahydropyrrolo[3,4-c]-pyrrol-2(1H)-yl)methanon;
(3-Fluor-2-(2H-1,2,3-triazol-2-yl)phenyl)-(5-(4,5,6-trimethylpyrimidin-2-yl)hexahydropyrrolo-[3,4-c]pyrrol-2(1H)-yl)methanon;
(5-Methoxy-2-(2H-1,2,3-triazol-2-yl)phenyl)-(5-(4,5,6-trimethylpyrimidin-2-yl)hexahydropyrrolo-[3,4-c]pyrrol-2(1H)-yl)methanon;
(3-Fluor-2-(2H-1,2,3-triazol-2-yl)phenyl)-(5-(6-fluorchinazolin-2-yl)hexahydropyrrolo[3,4-c]-pyrrol-2(1H)-yl)methanon;
(3-Fluor-2-(pyrimidin-2-yl)phenyl)-(5-(6-fluor-chinazolin-2-yl)hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl)methanon;
(5-(6,7-Difluorchinoxalin-2-yl)hexahydropyrrolo-[3,4-c]pyrrol-2(1H)-yl)-(3-fluor-2-(2H-1,2,3-triazol-2-yl)phenyl)methanon;
(5-(6,7-Difluorchinoxalin-2-yl)hexahydropyrrolo-[3,4-c]pyrrol-2(1H)-yl)-(5-methoxy-2-(2H-1,2,3-triazol-2-yl)phenyl)methanon;
(5-(6,7-Difluorchinoxalin-2-yl)hexahydropyrrolo-[3,4-c]pyrrol-2(1H)-yl)-(2-fluor-6-(2H-1,2,3-triazol-2-yl)phenyl)methanon;
(2-Brom-3-fluorphenyl)-(5-(6-fluorchinazolin-2-yl)hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl)methanon;
(5-(4,6-Dimethylpyrimidin-2-yl)hexahydropyrrolo-[3,4-c]pyrrol-2(1H)-yl)-(4-fluor-2-(5-methylpyridin-2-yl)phenyl)methanon;
(2-Brompyridin-3-yl)-(5-(4,5,6-trimethylpyrimidin-2-yl)hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl)-methanon;
(2-(1-(Tetrahydro-2H-pyran-2-yl)-1H-pyrazol-5-yl)-pyridin-3-yl)-(5-(4,5,6-trimethylpyrimidin-2-yl)-hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl)methanon;
(2-(1H-Pyrazol-5-yl)pyridin-3-yl)-(5-(4,5,6-trimethylpyrimidin-2-yl)hexahydropyrrolo[3,4-c]-pyrrol-2(1H)-yl)methanon;
6-[5-{[2-Fluor-6-(2H-1,2,3-triazol-2-yl)phenyl]-carbonyl}hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl]-2-methylpyrimidin-4(3H)-on;
2-(2,6-Dimethylpyrimidin-4-yl)-5-{[5-(4-fluorphenyl)-2-methyl-1,3-thiazol-4-yl]carbonyl}-octahydropyrrolo[3,4-c]pyrrol;
2-(4,6-Dimethylpyrimidin-2-yl)-5-{[5-(4-fluorphenyl)-2-methyl-1,3-thiazol-4-yl]carbonyl}-octahydropyrrolo[3,4-c]pyrrol;
6-[5-{[5-(4-Fluorphenyl)-2-methyl-1,3-thiazol-4-yl]carbonyl}hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl]-2-methyl-pyrimidin-4(3H)-on;
6-{5-[(5-Fluor-2-pyrimidin-2-ylphenyl)carbonyl]-hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl}-2-methyl-pyrimidin-4(3H)-on;
(5-(4,6-Dimethylpyrimidin-2-yl)hexahydropyrrolo-[3,4-c]pyrrol-2(1H)-yl)-(4-fluor-2-(2H-1,2,3-triazol-2-yl)phenyl)methanon;
(5-(4,6-Dimethoxypyrimidin-2-yl)hexahydropyrrolo-[3,4-c]pyrrol-2(1H)-yl)-(2-fluor-6-(2H-1,2,3-triazol-2-yl)phenyl)methanon;
(5-(4,6-Dimethylpyrimidin-2-yl)hexahydropyrrolo-[3,4-c]pyrrol-2(1H)-yl)-(2-methyl-6-(2H-1,2,3-triazol-2-yl)phenyl)methanon;
(5-(4,6-Dimethylpyrimidin-2-yl)hexahydropyrrolo-[3,4-c]pyrrol-2(1H)-yl)-(3-methyl-2-(2H-1,2,3-triazol-2-yl)phenyl)methanon;
(2-Fluor-6-(2H-1,2,3-triazol-2-yl)phenyl)-(5-(5-nitropyrimidin-2-yl)hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl)methanon;
2-(5-(2-Fluor-6-(2H-1,2,3-triazol-2-yl)benzoyl)-hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl)-4-(trifluormethyl)pyrimi-

din-5-carbonsäuremethylester;
2-(5-(2-Fluor-6-(2H-1,2,3-triazol-2-yl)benzoyl)-hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl)-4-(trifluormethyl)pyrimidin-5-carbonsäure;
(2-(4H-1,2,4-Triazol-4-yl)phenyl)-(5-(4,6-dimethylpyrimidin-2-yl)hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl)methanon;
2-(5-(2-Fluor-6-(2H-1,2,3-triazol-2-yl)benzoyl)-hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl)-6-methyl-pyrimidin-4-carbonsäure;
(4,5-Difluor-2-(4H-1,2,4-triazol-4-yl)phenyl)-(5-(4,6-dimethylpyrimidin-2-yl)hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl)methanon;
(5-(4,6-Dimethylpyrimidin-2-yl)hexahydropyrrolo-[3,4-c]pyrrol-2(1H)-yl)-(3-methyl-2-(1H-1,2,3-triazol-1-yl)phenyl)methanon;
2-(5-(2-Fluor-6-(2H-1,2,3-triazol-2-yl)benzoyl)-hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl)-N,N,6-trimethylpyrimidin-4-carbonsäureamid;
2-(5-(2-Fluor-6-(2H-1,2,3-triazol-2-yl)benzoyl)-hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl)-N,N-dimethyl-4-(trifluormethyl)pyrimidin-5-carbonsäureamid;
(5-(4,6-Dimethylpyrimidin-2-yl)hexahydropyrrolo-[3,4-c]pyrrol-2(1H)-yl)-(mesityl)methanon;
(2,3-Difluorphenyl)-(5-(4,6-dimethylpyrimidin-2-yl)hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl)-methanon;
(5-(4,6-Dimethylpyrimidin-2-yl)hexahydropyrrolo-[3,4-c]pyrrol-2(1H)-yl)-(4-methoxy-2-(pyrimidin-2-yl)phenyl)methanon;
(2,3-Dimethoxyphenyl)-(5-(4,6-dimethylpyrimidin-2-yl)hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl)-methanon;
(5-(4,6-Dimethylpyrimidin-2-yl)hexahydropyrrolo-[3,4-c]pyrrol-2(1H)-yl)-(2-(trifluormethoxy)-phenyl)methanon;
[5-(4,6-Dimethylpyrimidin-2-yl)hexahydropyrrolo-[3,4-c]pyrrol-2-yl]-(6-methyl-2-[1,2,3]triazol-2-ylpyridin-3-yl)methanon;
(5-(4,6-Dimethylpyrimidin-2-yl)hexahydropyrrolo-[3,4-c]pyrrol-2(1H)-yl)-(2-methoxy-4-methylphenyl)methanon;
(5-(4,6-Dimethylpyrimidin-2-yl)hexahydropyrrolo-[3,4-c]pyrrol-2(1H)-yl)-(4-methoxy-2-methylphenyl)methanon;
(2,6-Difluorphenyl)-(5-(4,6-dimethylpyrimidin-2-yl)hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl)-methanon;
2-[5-{[2-Fluor-6-(2H-1,2,3-triazol-2-yl)phenyl]-carbonyl}hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl]-6-methylpyrimidin-4-carbonitril;
2-[4,6-Bis(trifluormethyl)pyrimidin-2-yl]-5-{[2-fluor-6-(2H-1,2,3-triazol-2-yl)phenyl]carbonyl}-octahydropyrrolo[3,4-c]pyrrol;
2-[5-{[2-Fluor-6-(2H-1,2,3-triazol-2-yl)phenyl]-carbonyl}hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl]-6-methylpyrimidin-4-ol;
(2-Fluor-6-(2H-1,2,3-triazol-2-yl)phenyl)-(5-(4-(furan-2-yl)-6-methylpyrimidin-2-yl)hexahydro-pyrrolo[3,4-c]pyrrol-2(1H)-yl)methanon;
2-(4,6-Dimethylpyrimidin-2-yl)-5-[(3-fluor-2-pyrimidin-2-ylphenyl)carbonyl]octahydropyrrolo-[3,4-c]pyrrol;
2-(4,6-Dimethylpyrimidin-2-yl)-5-{[3-fluor-2-(1H-pyrazol-5-yl)phenyl]carbonyl}octahydropyrrolo[3,4-c]pyrrol;
2-(4,6-Dimethylpyrimidin-2-yl)-5-{[3-methoxy-2-(2H-1,2,3-triazol-2-yl)phenyl]carbonyl}octahydro-pyrrolo[3,4-c]pyrrol;
2-(4,6-Dimethylpyrimidin-2-yl)-5-{[3-methoxy-2-(1H-1,2,3-triazol-1-yl)phenyl]carbonyl}octahydropyrrolo[3,4-c]pyrrol;
2-(4,6-Dimethylpyrimidin-2-yl)-5-{[3-fluor-2-(1H-1,2,3-triazol-1-yl)phenyl]carbonyl}octahydropyrrolo-[3,4-c]pyrrol;
2-(4,6-Dimethylpyrimidin-2-yl)-5-{[4-methoxy-2-(2H-1,2,3-triazol-2-yl)phenyl]carbonyl}octahydro-pyrrolo[3,4-c]pyrrol;
2-(4,6-Dimethylpyrimidin-2-yl)-5-{[4-methoxy-2-(1H-1,2,3-triazol-2-yl)phenyl]carbonyl}octahydro-pyrrolo[3,4-c]pyrrol;
2-(5-Fluor-4-methylpyrimidin-2-yl)-5-{[2-(2H-1,2,3-triazol-2-yl)phenyl]carbonyl}octahydro-pyrrolo[3,4-c]pyrrol;
2-(2-Chlor-5-fluorpyrimidin-4-yl)-5-{[2-(2H-1,2,3-triazol-2-yl)phenyl]carbonyl}octahydropyrrolo[3,4-c]pyrrol;
2-(5-Fluorpyrimidin-2-yl)-5-{[2-fluor-6-(2H-1,2,3-triazol-2-yl)phenyl]carbonyl}octahydropyrrolo[3,4-c]pyrrol;
2-(5-Fluor-4-methylpyrimidin-2-yl)-5-{[2-fluor-6-(2H-1,2,3-triazol-2-yl)phenyl]carbonyl}octahydro-pyrrolo[3,4-c]pyrrol;
2-{[2-Fluor-6-(2H-1,2,3-triazol-2-yl)phenyl]-carbonyl}-5-(4,5,6-trimethylpyrimidin-2-yl)-octahydropyrrolo[3,4-c]pyrrol;
2-(4,5-Dimethylpyrimidin-2-yl)-5-{[2-fluor-6-(2H-1,2,3-triazol-2-yl)phenyl]carbonyl}octahydro-pyrrolo[3,4-c]pyrrol;
2-{[2-Fluor-6-(2H-1,2,3-triazol-2-yl)phenyl]-carbonyl}-5-(4-methoxy-6-methylpyrimidin-2-yl)-octahydropyrro-

lo[3,4-c]pyrrol;
2-(4-Ethyl-6-methylpyrimidin-2-yl)-5-{[2-fluor-6-(2H-1,2,3-triazol-2-yl)phenyl]carbonyl}octahydro-pyrrolo[3,4-c]pyrrol;
2-{[2-Fluor-6-(2H-1,2,3-triazol-2-yl)phenyl]-carbonyl}-5-[4-methyl-6-(1-methylethyl)pyrimidin-2-yl]octahydro-pyrrolo[3,4-c]pyrrol;
2-[4-Methyl-6-(1-methylethyl)pyrimidin-2-yl]-5-{[2-(2H-1,2,3-triazol-2-yl)phenyl]carbonyl}-octahydropyrrolo[3,4-c]pyrrol;
2-{[5-(1-Methylethyl)-2-(2H-1,2,3-triazol-2-yl)-phenyl]carbonyl}-5-[4-methyl-6-(1-methylethyl)-pyrimidin-2-yl]octahydropyrrolo[3,4-c]pyrrol;
2-(4-tert.-Butyl-6-methylpyrimidin-2-yl)-5-{[2-fluor-6-(2H-1,2,3-triazol-2-yl)phenyl]carbonyl}-octahydropyrrolo[3,4-c]pyrrol;
2-(4-Cyclopropyl-6-methylpyrimidin-2-yl)-5-{[2-fluor-6-(2H-1,2,3-triazol-2-yl)phenyl]carbonyl}-octahydropyrrolo[3,4-c]pyrrol;
2-{[2-Fluor-6-(2H-1,2,3-triazol-2-yl)phenyl]-carbonyl}-5-(4-methyl-1,3,5-triazin-2-yl)-octahydropyrrolo[3,4-c]pyrrol;
2-{[2-Fluor-6-(2H-1,2,3-triazol-2-yl)phenyl]-carbonyl}-5-(4-methyl-6-morpholin-4-ylpyrimidin-2-yl)octahydro-pyrrolo[3,4-c]pyrrol;
2-{[2-(4H-1,2,4-Triazol-3-yl)phenyl]carbonyl}-5-(4,5,6-trimethylpyrimidin-2-yl)octahydropyrrolo-[3,4-c]pyrrol;
2-(4,6-Dimethylpyrimidin-2-yl)-5-{[2-(3-methyl-1,2,4-oxadiazol-5-yl)phenyl]carbonyl}octahydro-pyrrolo[3,4-c]pyrrol;
2-(4,6-Dimethylpyrimidin-2-yl)-5-{[2-(1-methyl-1H-1,2,4-triazol-5-yl)phenyl]carbonyl}octahydro-pyrrolo[3,4-c]pyrrol;
2-(4,6-Dimethylpyrimidin-2-yl)-5-{[2-(1-methyl-1H-1,2,4-triazol-3-yl)phenyl]carbonyl}octahydro-pyrrolo[3,4-c]pyrrol;
2-{[2-(3-Methyl-1,2,4-oxadiazol-5-yl)phenyl]-carbonyl}-5-(4,5,6-trimethylpyrimidin-2-yl)octahydropyrrolo[3,4-c]pyrrol;
2-(5-Fluor-4-methylpyrimidin-2-yl)-5-{[2-(3-methyl-1,2,4-oxadiazol-5-yl)phenyl]carbonyl}-octahydropyrrolo[3,4-c]pyrrol;
2-{[2-(1-Methyl-1H-1,2,4-triazol-3-yl)phenyl]-carbonyl}-5-(4,5,6-trimethylpyrimidin-2-yl)-octahydropyrrolo[3,4-c]pyrrol;
2-(5-Fluor-4-methylpyrimidin-2-yl)-5-{[2-(1-methyl-1H-1,2,4-triazol-3-yl)phenyl]carbonyl}-octahydropyrrolo[3,4-c]pyrrol;
2-[5-{[2-Fluor-6-(2H-1,2,3-triazol-2-yl)phenyl]-carbonyl}hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl]-4-methyl-6,7-dihydro-5H-cyclopenta[d]pyrimidin;
2-(4,6-Dimethylpyrimidin-2-yl)-5-{[3-fluor-2-(3-methyl-1,2,4-oxadiazol-5-yl)phenyl]carbonyl}-octahydropyrrolo[3,4-c]pyrrol;
2-(4,6-Dimethylpyrimidin-2-yl)-5-{[2-fluor-6-(3-methyl-1,2,4-oxadiazol-5-yl)phenyl]carbonyl}-octahydropyrrolo[3,4-c]pyrrol;
2-(5-Chlor-4-methylpyrimidin-2-yl)-5-{[2-fluor-6-(2H-1,2,3-triazol-2-yl)phenyl]carbonyl}octahydro-pyrrolo[3,4-c]pyrrol;
2-(5-Chlor-4,6-dimethylpyrimidin-2-yl)-5-{[2-fluor-6-(2H-1,2,3-triazol-2-yl)phenyl]carbonyl}-octahydropyrrolo[3,4-c]pyrrol;
2-(5-Chlor-4,6-dimethylpyrimidin-2-yl)-5-{[2-(3-methyl-1,2,4-oxadiazol-5-yl)phenyl]carbonyl}-octahydropyrrolo[3,4-c]pyrrol;
4-Methyl-2-[5-{[2-(3-methyl-1,2,4-oxadiazol-5-yl)-phenyl]carbonyl}hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl]-6,7-dihydro-5H-cyclopenta[d]pyrimidin;
2-(5-Chlor-4,6-dimethylpyrimidin-2-yl)-5-{[2-(1-methyl-1H-1,2,4-triazol-3-yl)phenyl]carbonyl}-octahydropyrrolo[3,4-c]pyrrol;
2-(5-Chlor-4-methylpyrimidin-2-yl)-5-{[2-(1-methyl-1H-1,2,4-triazol-3-yl)phenyl]carbonyl}-octahydropyrrolo[3,4-c]pyrrol;
2-(5-Ethyl-4,6-dimethylpyrimidin-2-yl)-5-{[2-(1-methyl-1H-1,2,4-triazol-3-yl)phenyl]carbonyl}-octahydropyrrolo[3,4-c]pyrrol;
2-{[3-(2H-1,2,3-Triazol-2-yl)pyridin-2-yl]-carbonyl}-5-(4,5,6-trimethylpyrimidin-2-yl)-octahydropyrrolo[3,4-c]pyrrol;
2-(5-Chlor-4,6-dimethylpyrimidin-2-yl)-5-{[3-(2H-1,2,3-triazol-2-yl)pyridin-2-yl]carbonyl}-octahydropyrrolo[3,4-c]pyrrol;
2-(5-Fluor-4,6-dimethylpyrimidin-2-yl)-5-{[3-(2H-1,2,3-triazol-2-yl)pyridin-2-yl]carbonyl}-octahydropyrrolo[3,4-c]pyrrol;

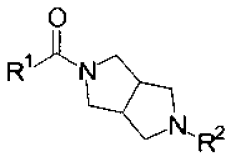
2-(4,6-Dimethylpyrimidin-2-yl)-5-(9H-fluoren-4-ylcarbonyl)octahydropyrrolo[3,4-c]pyrrol;
[5-(4,6-Dimethylpyrimidin-2-yl)hexahydropyrrolo-[3,4-c]pyrrol-2-yl]-(5-[1,2,3]triazol-2-ylbenzo-[1,3]dioxol-4-yl)methanon;
[5-(4,6-Dimethylpyrimidin-2-yl)hexahydropyrrolo-[3,4-c]pyrrol-2-yl]-(8-[1,2,3]triazol-2-ylnaphthalin-1-yl)methanon;
[5-(4,6-Dimethylpyrimidin-2-yl)hexahydropyrrolo-[3,4-c]pyrrol-2-yl]-(4-[1,2,3]triazol-1-ylpyridin-3-yl)methanon;
(5-tert.-Butyl-2-methoxyphenyl)-[5-(4,6-dimethyl-pyrimidin-2-yl)hexahydropyrrolo[3,4-c]pyrrol-2-yl]methanon;
[5-(4,6-Dimethylpyrimidin-2-yl)hexahydropyrrolo-[3,4-c]pyrrol-2-yl]-(1-[1,2,3]triazol-2-ylnaphthalin-2-yl)methanon;
[5-(4,6-Dimethylpyrimidin-2-yl)hexahydropyrrolo-[3,4-c]pyrrol-2-yl]-(3-[1,2,3]triazol-2-ylpyridin-2-yl)methanon;
(2-Brom-4,5-dimethoxyphenyl)-[5-(4,6-dimethyl-pyrimidin-2-yl)hexahydropyrrolo[3,4-c]pyrrol-2-yl]methanon;
(3,4-Dihydro-2H-benzo[b]-[1,4]dioxepin-6-yl)-[5-(4,6-dimethylpyrimidin-2-yl)hexahydropyrrolo[3,4-c]pyrrol-2-yl]methanon;
(5-(4,6-Dimethylpyrimidin-2-yl)hexahydropyrrolo-[3,4-c]pyrrol-2(1H)-yl)-(4-fluor-2-(6-methyl-pyridin-2-yl)phenyl)methanon;
[5-(4,6-Dimethylpyrimidin-2-yl)hexahydropyrrolo-[3,4-c]pyrrol-2-yl]-(6-methyl-2-[1,2,3]triazol-1-ylpyridin-3-yl)methanon;
(1-Bromnaphthalin-2-yl)-[5-(4,6-dimethylpyrimidin-2-yl)hexahydropyrrolo[3,4-c]pyrrol-2-yl]methanon;
[5-(4,6-Dimethylpyrimidin-2-yl)hexahydropyrrolo-[3,4-c]pyrrol-2-yl]-(3-methoxynaphthalin-2-yl)-methanon;
[5-(4,6-Dimethylpyrimidin-2-yl)hexahydropyrrolo-[3,4-c]pyrrol-2-yl]-(8-[1,2,3]triazol-2-ylnaphthalin-1-yl)methanon;
[5-(4,6-Dimethylpyrimidin-2-yl)hexahydropyrrolo-[3,4-c]pyrrol-2-yl]-(1-methoxynaphthalin-2-yl)-methanon;
(4,5-Dimethoxy-2-[1,2,3]triazol-1-ylphenyl)-[5-(4,6-dimethylpyrimidin-2-yl)hexahydropyrrolo[3,4-c]pyrrol-2-yl]methanon;
(4,5-Dimethoxy-2-[1,2,3]triazol-2-ylphenyl)-[5-(4,6-Dimethylpyrimidin-2-yl)hexahydropyrrolo[3,4-c]pyrrol-2-yl]methanon;
(5-(4,6-Dimethylpyrimidin-2-yl)hexahydropyrrolo-[3,4-c]pyrrol-2(1H)-yl)-(4-fluor-2-(4-methyl-pyridin-2-yl)phenyl)methanon;
(5-(4,6-Dimethylpyrimidin-2-yl)hexahydropyrrolo-[3,4-c]pyrrol-2(1H)-yl)-(3-propoxypyridin-2-yl)-methanon;
(3-Propoxypyridin-2-yl)-(5-(5-(trifluormethyl)-pyrimidin-2-yl)hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl)methanon;
(5-(4,6-Dimethylpyrimidin-2-yl)hexahydropyrrolo-[3,4-c]pyrrol-2(1H)-yl)-(4-fluor-2-(3-fluorpyridin-2-yl)phenyl)methanon;
(3-Propoxypyridin-2-yl)-(5-(chinoxalin-2-yl)-hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl)methanon;
2-(5-([1,1'-Biphenyl]-2-ylsulfonyl)hexahydro-pyrrolo[3,4-c]pyrrol-2(1H)-yl)chinoxalin;
2-[(2,6-Dimethoxyphenyl)carbonyl]-5-[5-(trifluor-methyl)pyridin-2-yl]octahydropyrrolo[3,4-c]pyrrol;
(2,6-Dimethoxyphenyl)-(5-(5-(trifluormethyl) - pyrimidin-2-yl)hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl)methanon;
(2,6-Dimethoxyphenyl)-(5-(4,6-dimethylpyrimidin-2-yl)hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl)-methanon;
(5-(4,6-Dimethylpyrimidin-2-yl)hexahydropyrrolo-[3,4-c]pyrrol-2(1H)-yl)-(3-methylfuran-2-yl)-methanon;
2-[(3-Methylfuran-2-yl)carbonyl]-5-[5-(trifluor-methyl)pyridin-2-yl]octahydropyrrolo[3,4-c]pyrrol;
(3-Methylfuran-2-yl)-(5-(5-(trifluormethyl)-pyrimidin-2-yl)hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl)methanon;
(3-Methylfuran-2-yl)-(5-(chinoxalin-2-yl)hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl)methanon;
2-([1,1'-Biphenyl]-2-ylsulfonyl)-5-(5-(trifluormethyl)pyridin-2-yl)octahydropyrrolo[3,4-c]pyrrol;
2-([1,1'-Biphenyl]-2-ylsulfonyl)-5-(5-(trifluormethyl)pyrimidin-2-yl)octahydropyrrolo[3,4-c]-pyrrol;
2-([1,1'-Biphenyl]-2-ylsulfonyl)-5-(4,6-dimethyl-pyrimidin-2-yl)octahydropyrrolo[3,4-c]pyrrol;
2-(4,6-Dimethylpyrimidin-2-yl)-5-((2-methoxyphenyl)sulfonyl)octahydropyrrolo[3,4-c]pyrrol;
2-((2-Methoxyphenyl)sulfonyl)-5-(5-(trifluormethyl)pyrimidin-2-yl)octahydropyrrolo[3,4-c]-pyrrol;
2-((2-Methoxyphenyl)sulfonyl)-5-(5-(trifluormethyl)pyridin-2-yl)octahydropyrrolo[3,4-c]pyrrol;
2-(5-((2-Methoxyphenyl)sulfonyl)hexahydropyrrolo-[3,4-c]pyrrol-2(1H)-yl)chinoxalin;
(3,6'-Dimethyl-[2,3'-bipyridin]-2'-yl)-(5-(chinoxalin-2-yl)hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl)methanon;
(3,6'-Dimethyl-[2,3'-bipyridin]-2'-yl)-(5-(5-(trifluormethyl)pyrimidin-2-yl)hexahydropyrrolo-[3,4-c]pyrrol-2(1H)-yl)methanon;
(3,6'-Dimethyl-[2,3'-bipyridin]-2'-yl)-(5-(5-(trifluormethyl)pyridin-2-yl)hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl)methanon;
(5-(4,6-Dimethylpyrimidin-2-yl)hexahydropyrrolo-[3,4-c]pyrrol-2(1H)-yl)-(4-fluor-2-(pyridin-2-yl)-phenyl)methanon;
(5-(4,6-Dimethylpyrimidin-2-yl)hexahydropyrrolo-[3,4-c]pyrrol-2(1H)-yl)-(3-fluor-2-(pyridin-2-yl)-phenyl)methanon;
[2,3-Bipyridin]-2'-yl-(5-(4,6-dimethylpyrimidin-2-yl)hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl)-methanon;

(5-(4,6-Dimethylpyrimidin-2-yl)hexahydropyrrolo-[3,4-c]pyrrol-2(1H)-yl)-(4-fluor-2-(oxazol-2-yl)-phenyl)methanon;
(5-(4,6-Dimethylpyrimidin-2-yl)hexahydropyrrolo-[3,4-c]pyrrol-2(1H)-yl)-(3-fluor-2-(6-methyl-pyridin-2-yl)phenyl)methanon;
(5-(4,6-Dimethylpyrimidin-2-yl)hexahydropyrrolo-[3,4-c]pyrrol-2(1H)-yl)-(3-fluor-2-(3-methyl-pyridin-2-yl)phenyl)methanon;
(2-(3-Chlorpyridin-2-yl)-3-fluorphenyl)-(5-(4,6-dimethylpyrimidin-2-yl)hexahydropyrrolo[3,4-c]-pyrrol-2(1H)-yl)methanon;
(5-(4,6-Dimethylpyrimidin-2-yl)hexahydropyrrolo-[3,4-c]pyrrol-2(1H)-yl)-(3-fluor-2-(4-methyl-pyridin-2-yl)phenyl)methanon;
(5-(4,6-Dimethylpyrimidin-2-yl)hexahydropyrrolo-[3,4-c]pyrrol-2(1H)-yl)-(3-fluor-2-(5-methyl-pyridin-2-yl)phenyl)methanon;
(5-(4,6-Dimethylpyrimidin-2-yl)hexahydropyrrolo-[3,4-c]pyrrol-2(1H)-yl)-(3-fluor-2-(3-fluorpyridin-2-yl)phenyl)methanon;
(5-(4,6-Dimethylpyrimidin-2-yl)hexahydropyrrolo-[3,4-c]pyrrol-2(1H)-yl)-(3-fluor-2-(oxazol-2-yl)-phenyl)methanon;
2-(5-Fluor-4-methylpyrimidin-2-yl)-5-{[4-methoxy-2-(2H-1,2,3-triazol-2-yl)phenyl]carbonyl}-octahydropyrrolo[3,4-c]pyrrol;
2-(5-Chlor-4-methylpyrimidin-2-yl)-5-{[4-methoxy-2-(2H-1,2,3-triazol-2-yl)phenyl]carbonyl}-octahydropyrrolo[3,4-c]pyrrol;
2-(5-Fluor-4,6-dimethylpyrimidin-2-yl)-5-{[4-methoxy-2-(2H-1,2,3-triazol-2-yl)phenyl]carbonyl}-octahydropyrrolo[3,4-c]pyrrol;
2-(4,5-Dimethylpyrimidin-2-yl)-5-{[4-methoxy-2-(2H-l,2,3-triazol-2-yl)phenyl]carbonyl}octahydro-pyrrolo[3,4-c]pyrrol;
2-[(3-Propoxypyridin-2-yl)carbonyl]-5-[5-(trifluormethyl)pyridin-2-yl]octahydropyrrolo[3,4-c]pyrrol;
2-{4,6-Bis[(2H3)methyl]-(2H)pyrimidin-2-yl}-5-{[2-fluor-6-(2H-1,2,3-triazol-2-yl)phenyl]carbonyl}-octahydropyrrolo[3,4-c]pyrrol;
2-{4,6-Bis[(2H3)methyl]-(2H)pyrimidin-2-yl}-5-{[3-fluor-2-(3-methyl-1,2,4-oxadiazol-5-yl)phenyl]-carbonyl}octahydropyrrolo[3,4-c]pyrrol;
2-{4,6-Bis[(2H3)methyl]-(2H)pyrimidin-2-yl}-5-{[4-methoxy-2-(2H-1,2,3-triazol-2-yl)phenyl]carbonyl}-octahydropyrrolo[3,4-c]pyrrol;
2-(5-Ethyl-4,6-dimethylpyrimidin-2-yl)-5-{[3-(2H-1,2,3-triazol-2-yl)pyridin-2-yl]carbonyl}-octahydropyrrolo[3,4-c]pyrrol;
2-(4,6-Dimethylpyrimidin-2-yl)-5-{[3-(3-methyl-1,2,4-oxadiazol-5-yl)pyridin-2-yl]carbonyl}-octahydropyrrolo[3,4-c]pyrrol;
(5-(6,7-Difluorchinoxalin-2-yl)hexahydro-pyrrolo[3,4-c]pyrrol-2(1H)-yl)-(3-fluor-2-(pyrimidin-2-yl)phenyl)methanon;
(5-(6,7-Difluorchinoxalin-2-yl)hexahydropyrrolo-[3,4-c]pyrrol-2(1H)-yl)-(3-fluor-2-(pyrimidin-2-yl)phenyl)methanon;
(5-(6,7-Difluorchinoxalin-2-yl)hexahydropyrrolo-[3,4-c]pyrrol-2(1H)-yl)-(4-methoxy-2-(2H-1,2,3-triazol-2-yl)phenyl)methanon;
(5-(6-(Dimethylamino)pyrimidin-4-yl)hexahydro-pyrrolo[3,4-c]pyrrol-2(1H)-yl)-(4-methoxy-2-(2H-1,2,3-triazol-2-yl)phenyl)methanon;
(5-(6-(Dimethylamino)-2-methylpyrimidin-4-yl)-hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl)-(4-methoxy-2-(2H-1,2,3-triazol-2-yl)phenyl)methanon;
(5-(6-(Dimethylamino)-2-methylpyrimidin-4-yl)-hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl)-(3-fluor-2-(pyrimidin-2-yl)phenyl)methanon;
(5-(6-(Dimethylamino)pyrimidin-4-yl)hexahydro-pyrrolo[3,4-c]pyrrol-2(1H)-yl)-(3-fluor-2-(pyrimidin-2-yl)phenyl)methanon;
(3-Fluor-2-(pyrimidin-2-yl)phenyl)-(5-(5-fluor-4,6-dimethylpyrimidin-2-yl)hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl)methanon;
(5-(5-Chlor-4,6-dimethylpyrimidin-2-yl)hexahydro-pyrrolo[3,4-c]pyrrol-2(1H)-yl)-(3-fluor-2-(pyrimidin-2-yl)phenyl)methanon;
(5-(5-Chlor-4-methylpyrimidin-2-yl)hexahydro-pyrrolo[3,4-c]pyrrol-2(1H)-yl)-(3-fluor-2-(pyrimidin-2-yl)phenyl)methanon;
(3-Fluor-2-(pyrimidin-2-yl)phenyl)-(5-(5-fluor-4-methylpyrimidin-2-yl)hexahydropyrrolo[3,4-c]-pyrrol-2(1H)-yl)methanon;
(5-(4,5-Dimethylpyrimidin-2-yl)hexahydropyrrolo-[3,4-c]pyrrol-2(1H)-yl)-(3-fluor-2-(pyrimidin-2-yl)phenyl)me-

thanon;
(5-(4,6-Dimethylpyrimidin-2-yl)hexahydropyrrolo-[3,4-c]pyrrol-2(1H)-yl)-(5-fluor-2-(6-methyl-pyridin-2-yl)phenyl)methanon;
(5-(4,6-Dimethylpyrimidin-2-yl)hexahydropyrrolo-[3,4-c]pyrrol-2(1H)-yl)-(5-fluor-2-(4-methyl-pyridin-2-yl)phenyl)methanon;
(5-(4,6-Dimethylpyrimidin-2-yl)hexahydropyrrolo-[3,4-c]pyrrol-2(1H)-yl)-(5-fluor-2-(5-methyl-pyridin-2-yl)phenyl)methanon;
(5-(4,6-Dimethylpyrimidin-2-yl)hexahydropyrrolo-[3,4-c]pyrrol-2(1H)-yl)-(5-fluor-2-(3-fluorpyridin-2-yl)phenyl)methanon;
(5-(4,6-Dimethylpyrimidin-2-yl)hexahydropyrrolo-[3,4-c]pyrrol-2(1H)-yl)-(5-fluor-2-(pyridin-2-yl)-phenyl)methanon;
(5-(4,6-Dimethylpyrimidin-2-yl)hexahydropyrrolo-[3,4-c]pyrrol-2(1H)-yl)-(4-fluor-2-(oxazol-2-yl)-phenyl)methanon;
(5-(4,6-Dimethylpyrimidin-2-yl)hexahydropyrrolo-[3,4-c]pyrrol-2(1H)-yl)-(6-fluor-2-(6-methyl-pyridin-2-yl)phenyl)methanon;
(5-(4,6-Dimethylpyrimidin-2-yl)hexahydropyrrolo-[3,4-c]pyrrol-2(1H)-yl)-(6-fluor-2-(4-methyl-pyridin-2-yl)phenyl)methanon;
(5-(4,6-Dimethylpyrimidin-2-yl)hexahydropyrrolo-[3,4-c]pyrrol-2(1H)-yl)-(6-fluor-2-(5-methyl-pyridin-2-yl)phenyl)methanon;
(5-(4,6-Dimethylpyrimidin-2-yl)hexahydropyrrolo-[3,4-c]pyrrol-2(1H)-yl)-(6-fluor-2-(3-fluorpyridin-2-yl)phenyl)methanon;
(5-(4,6-Dimethylpyrimidin-2-yl)hexahydropyrrolo-[3,4-c]pyrrol-2(1H)-yl)-(6-fluor-2-(pyridin-2-yl)-phenyl)methanon;
(5-(4,6-Dimethylpyrimidin-2-yl)hexahydropyrrolo-[3,4-c]pyrrol-2(1H)-yl)-(6-fluor-2-(oxazol-2-yl)-phenyl)methanon;
(3,6'-Dimethyl-[2,3'-bipyridin]-2'-yl)-(5-(chinoxalin-2-yl)hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl)methanon und
[5-(4,6-Dimethylpyrimidin-2-yl)hexahydropyrrolo-[3,4-c]pyrrol-2-yl]-(2-fluor-6-[1,2,3]triazol-2-ylphenyl)methanon·HCl·1, 65H2O.

35. Pharmazeutische Zusammensetzung zur Behandlung einer Krankheit, einer Erkrankung oder eines medizinischen Leidens, welche bzw. welches durch Orexinaktivität vermittelt wird, umfassend:

(a)eine wirksame Menge mindestens einer chemischen Einheit ausgewählt aus Verbindungen der Formel (I):



Formel (I),

wobei:

R^1 für ein aus der folgenden Gruppe ausgewähltes Glied steht:

A) Phenyl, substituiert oder unsubstituiert durch ein oder zwei R^a-Glieder und in der ortho-Position substituiert durch R^b;
R^a ist unabhängig aus der folgenden Gruppe ausgewählt : -H, Halogen, -C_{1-4}-Alkyl, -C_{1-4}-Alkoxy und -NO_2, wobei zwei benachbarte R^a-Glieder zusammen einen 6-gliedrigen aromatischen Ring bilden können;
R^b steht für ein aus der folgenden Gruppe ausgewähltes Glied:

a) Halogen, -C_{1-4}-Alkoxy, -C_{1-4}-Alkyl, -CF_3, -OCF_3 oder -CN;
b) 5-gliedriger Heteroarylring mit einem Sauerstoff- oder einem Schwefelglied;
c) 5- oder 6-gliedriger Heteroarylring mit einem, zwei oder drei Stickstoffgliedern, welcher gegebenenfalls ein Sauerstoffglied enthält, substituiert oder unsubstituiert durch Halogen oder -C_{1-4}-Alkyl; und

d) Phenyl, substituiert oder unsubstituiert durch Halogen, $-CH_3$ oder $-CF_3$;

B) Pyridin, substituiert oder unsubstituiert durch ein oder zwei R^c-Glieder und substituiert durch R^d, wobei sich R^d in der dem Anbindungspunkt von R^1 benachbarten Position befindet;
R^c steht für C_{1-4}-Alkyl;
R^d steht für ein aus der folgenden Gruppe ausgewähltes Glied:

a) 5- oder 6-gliedriger Heteroarylring, ausgewählt aus der folgenden Gruppe: 1H-1,2,3-Triazol-1-yl, 2H-1,2,3-Triazol-2-yl, 1H-Pyrazol-5-yl, 3-Methyl-1,2,4-oxadiazol-5-yl, Pyridinyl, 3-Methylpyridin-2-yl, 1-(Tetrahydro-2H-pyran-2-yl)-1H-pyrazol-5-yl, Phenyl und Pyrimidin-2-yl; und
b) $-CF_3$, -Br und $-C_{1-4}$-Alkoxy;

C) 5-gliedriger Heteroarylring, ausgewählt aus der folgenden Gruppe: 2-Methyl-1,3-thiazol-yl, 1H-Pyrazol-5-yl, Oxazol, Isoxazolyl, Thiophen-2-yl und Furan-2-yl, jeweils substituiert durch -F substituiertes oder unsubstituiertes Phenyl; und
D) 5- bis 13-gliedriger Aryl- oder Heteroarylring, ausgewählt aus der folgenden Gruppe: 3-Methyl-furan-2-yl, 9H-Fluoren, Chinolin, Cinnolin; 3-(1H-Pyrrol-1-yl)thiophen-2-yl, 8-[1,2,3]-Triazol-2-ylnaphthalin-1-yl, 2,3-Dihydro-1,4-benzodioxin-5-yl, 1H-Indol-7-yl, 4-Fluor-naphthalin-1-yl und Naphthalin-1-yl;

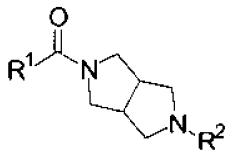
R^2 für ein aus der folgenden Gruppe ausgewähltes Glied steht:

A) 6-gliedriger Heteroarylring mit zwei Stickstoffgliedern, substituiert durch ein oder mehrere Glieder unabhängig ausgewählt aus der folgenden Gruppe: Halogen, $-C_{1-4}$-Alkyl, $-CD_3$, -D, $-C_{1-4}$-Alkoxy, Cyclopropyl, Morpholin-2-yl, $-CO_2-C_{1-4}$-Alkyl, $-CO_2H$, - CH_2OH, $-C(O)N(C_{1-4}\text{-Alkyl})_2$, $-CF_3$, -CN, -OH,$-NO_2$, $-N(C_{1-4}\text{-Alkyl})_2$, Phenyl, Furan-2-yl, Thiophen-2-yl, 1H-Pyrazol-4-yl und Pyrrolidin-1-yl;
B) Pyridin, substituiert durch ein oder zwei Glieder unabhängig ausgewählt aus der folgenden Gruppe: Halogen, $-C_{1-4}$-Alkyl, $-C_{1-4}$-Alkoxy und $-CF_3$;
C) 9-gliedriger Heteroarylring, ausgewählt aus der folgenden Gruppe: Benzoxazol-2-yl, 2-Methylpyrimidin-4(3H)on, 6-Fluor-1,3-benzothiazol, 1,3-Benzothiazol, 6-Methoxy-1,3-benzothiazol, 6-Methyl-1,3-benzothiazol, 6-Chlorbenzothiazol-2-yl und 4-Methyl-6,7-dihydro-5H-cyclopenta[d]pyrimidin;
D) 10-gliedriger Heteroarylring, ausgewählt aus der folgenden Gruppe: Chinoxalin-2-yl, 3-Methylchinoxalin-2-yl, 6,7-Difluorchinoxalin-2-yl, 3-(Trifluormethyl)-chinoxalin, Chinolin, 4-Methylchinolin und 6-Fluorchinazolin-2-yl; und
E) 4-Methyl-1,3,5-triazin-2-yl;

und pharmazeutisch unbedenklichen Salzen der Verbindung der Formel (I); und
b) mindestens einen pharmazeutisch unbedenklichen Exzipienten.

36. Pharmazeutische Zusammensetzung, umfassend eine wirksame Menge mindestens einer chemischen Einheit nach Anspruch 34 und mindestens einen pharmazeutisch unbedenklichen Exzipienten.

37. Mindestens eine chemische Einheit, ausgewählt aus Verbindungen der Formel (I):



Formel (I),

wobei:

R^1 für ein aus der folgenden Gruppe ausgewähltes Glied steht:

A) Phenyl, substituiert oder unsubstituiert durch ein oder zwei R^a-Glieder und in der ortho-Position substituiert durch R^b;
R^a ist unabhängig aus der folgenden Gruppe ausgewählt : -H, Halogen, $-C_{1-4}$-Alkyl, $-C_{1-4}$-Alkoxy und $-NO_2$,

wobei zwei benachbarte R^a-Glieder zusammen einen 6-gliedrigen aromatischen Ring bilden können;
R^b steht für ein aus der folgenden Gruppe ausgewähltes Glied:

a) Halogen, -C_{1-4}-Alkoxy, -C_{1-4}-Alkyl, -CF_3, -OCF_3 oder -CN;
b) 5-gliedriger Heteroarylring mit einem Sauerstoff- oder einem Schwefelglied;
c) 5- oder 6-gliedriger Heteroarylring mit einem, zwei oder drei Stickstoffgliedern, welcher gegebenenfalls ein Sauerstoffglied enthält, substituiert oder unsubstituiert durch Halogen oder -C_{1-4}-Alkyl; und
d) Phenyl, substituiert oder unsubstituiert durch Halogen, -CH_3 oder -CF_3;

B) Pyridin, substituiert oder unsubstituiert durch ein oder zwei R^c-Glieder und substituiert durch R^d, wobei sich R^d in der dem Anbindungspunkt von R^1 benachbarten Position befindet;
R^c steht für C_{1-4}-Alkyl;
R^d steht für ein aus der folgenden Gruppe ausgewähltes Glied:

a) 5- oder 6-gliedriger Heteroarylring, ausgewählt aus der folgenden Gruppe: 1H-1,2,3-Triazol-1-yl, 2H-1,2,3-Triazol-2-yl, 1H-Pyrazol-5-yl, 3-Methyl-1,2,4-oxadiazol-5-yl, Pyridinyl, 3-Methylpyridin-2-yl, 1-(Tetrahydro-2H-pyran-2-yl)-1H-pyrazol-5-yl, Phenyl und Pyrimidin-2-yl; und
b) -CF_3, -Br und -C_{1-4}-Alkoxy;

C) 5-gliedriger Heteroarylring, ausgewählt aus der folgenden Gruppe: 2-Methyl-1,3-thiazol-yl, 1H-Pyrazol-5-yl, Oxazol, Isoxazolyl, Thiophen-2-yl und Furan-2-yl, jeweils substituiert durch -F substituiertes oder unsubstituiertes Phenyl; und
D) 5- bis 13-gliedriger Aryl- oder Heteroarylring, ausgewählt aus der folgenden Gruppe: 3-Methyl-furan-2-yl, 9H-Fluoren, Chinolin, Cinnolin; 3-(1H-Pyrrol-1-yl)thiophen-2-yl, 8-[1,2,3]-Triazol-2-ylnaphthalin-1-yl, 2,3-Dihydro-1,4-benzodioxin-5-yl, 1H-Indol-7-yl, 4-Fluor-naphthalin-1-yl und Naphthalin-1-yl;

R^2 für ein aus der folgenden Gruppe ausgewähltes Glied steht:

A) 6-gliedriger Heteroarylring mit zwei Stickstoffgliedern, substituiert durch ein oder mehrere Glieder unabhängig ausgewählt aus der folgenden Gruppe: Halogen, -C_{1-4}-Alkyl, -CD_3, -D, -C_{1-4}-Alkoxy, Cyclopropyl, Morpholin-2-yl, -CO_2-C_{1-4}-Alkyl, -CO_2H, - CH_2OH, -C(O)N (C_{1-4}-Alkyl) $_2$, -CF_3, -CN, -OH,-NO_2, -N (C_{1-4}-Alkyl)$_2$, Phenyl, Furan-2-yl, Thiophen-2-yl, 1H-Pyrazol-4-yl und Pyrrolidin-1-yl;
B) Pyridin, substituiert durch ein oder zwei Glieder unabhängig ausgewählt aus der folgenden Gruppe: Halogen, -C_{1-4}-Alkyl, -C_{1-4}-Alkoxy und -CF_3;
C) 9-gliedriger Heteroarylring, ausgewählt aus der folgenden Gruppe: Benzoxazol-2-yl, 2-Methylpyrimidin-4(3H)on, 6-Fluor-1,3-benzothiazol, 1,3-Benzothiazol, 6-Methoxy-1,3-benzothiazol, 6-Methyl-1,3-benzothiazol, 6-Chlorbenzothiazol-2-yl und 4-Methyl-6,7-dihydro-5H-cyclopenta[d]pyrimidin;
D) 10-gliedriger Heteroarylring, ausgewählt aus der folgenden Gruppe: Chinoxalin-2-yl, 3-Methylchinoxalin-2-yl, 6,7-Difluorchinoxalin-2-yl, 3-(Trifluormethyl)-chinoxalin, Chinolin, 4-Methylchinolin und 6-Fluorchinazolin-2-yl; und
E) 4-Methyl-1,3,5-triazin-2-yl;

und pharmazeutisch unbedenklichen Salzen von Verbindungen der Formel (I) und mindestens ein pharmazeutisch unbedenklicher Exzipient zur Verwendung bei einem Verfahren zur Behandlung eines Patienten, der an einer durch Orexinrezeptoraktivität vermittelten Krankheit oder Störung oder einem durch Orexinrezeptoraktivität vermittelten medizinischen Leiden leidet bzw. bei dem diese/dieses diagnostiziert wurde.

38. Mindestens eine chemische Einheit und mindestens ein pharmazeutisch unbedenklicher Exzipient zur Verwendung nach Anspruch 37, wobei es sich bei der chemischen Einheit um [5-(4,6-Dimethylpyrimidin-2-yl)hexahydropyrrolo[3,4-c]pyrrol-2-yl]-(2-fluor-6-[1,2,3]triazol-2-ylphenyl)methanon oder ein pharmazeutisch unbedenkliches Salz davon handelt.

39. Mindestens eine chemische Einheit und mindestens ein pharmazeutisch unbedenklicher Exzipient zur Verwendung nach Anspruch 38, wobei es sich bei der chemischen Einheit um das HCl-Salz von [5-(4,6-Dimethylpyrimidin-2-yl)hexahydropyrrolo[3,4-c]pyrrol-2-yl]-(2-fluor-6-[1,2,3]triazol-2-ylphenyl)methanon handelt.

40. Mindestens eine chemische Einheit und mindestens ein pharmazeutisch unbedenklicher Exzipient zur Verwendung nach Anspruch 38, wobei es sich bei der chemischen Einheit um [5-(4,6-Dimethylpyrimidin-2-yl)hexahydropyrro-

lo[3,4-c]pyrrol-2-yl]-(2-fluor-6-[1,2,3]triazol-2-ylphenyl)methanon handelt.

41. Mindestens eine chemische Einheit und mindestens ein pharmazeutisch unbedenklicher Exzipient zur Verwendung nach Anspruch 37, wobei es sich bei der chemischen Einheit um 2-(4,6-Dimethylpyrimidin-2-yl)-5-{[4-methoxy-2-(2H-1,2,3-triazol-2-yl)phenyl]carbonyl}octahydropyrrolo[3,4-c]pyrrol oder ein pharmazeutisch unbedenkliches Salz davon handelt.

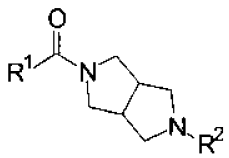
42. Mindestens eine chemische Einheit und mindestens ein pharmazeutisch unbedenklicher Exzipient zur Verwendung nach Anspruch 41, wobei es sich bei der chemischen Einheit um 2-(4,6-Dimethylpyrimidin-2-yl)-5-{[4-methoxy-2-(2H-1,2,3-triazol-2-yl)phenyl]carbonyl}octahydropyrrolo[3,4-c]pyrrol handelt.

43. Mindestens eine chemische Einheit und mindestens ein pharmazeutisch unbedenklicher Exzipient zur Verwendung nach Anspruch 37, wobei die Krankheit, die Störung bzw. das medizinische Leiden aus der folgenden Gruppe ausgewählt ist: Störungen des Schlaf-Wach-Zyklus, Schlaflosigkeit, Ruheloses-Bein-Syndrom, Jetlag, Schlafstörung, Schlafstörungen als Folge von neurologischen Störungen, Manien, Depressionen, manische Depression, Schizophrenie, Schmerzsyndrom, Fibromyalgie, neuropathischer Schmerz, Katatonie, Parkinson-Krankheit, Tourette-Syndrom, Angstzustand, Delirium, Demenz, Übergewicht oder Obesitas und Leiden, die mit Übergewicht bzw. Obesitas in Zusammenhang stehen, Insulinresistenz, Typ-II-Diabetes, Hyperlipidämie, Gallensteine, Angina, Bluthochdruck, Atemnot, Tachykardie, Unfruchtbarkeit, Schlafapnoe, Rücken- und Gelenkschmerz, variszöse Venen, Osteoarthritis, Bluthochdruck, Tachykardie, Arrhythmien, Angina pectoris, akute Herzinsuffizienz, Geschwüre, Reizdarmsyndrom, Diarrhoe und gastroösophagealem Rückfluss.

44. Mindestens eine chemische Einheit und mindestens ein pharmazeutisch unbedenklicher Exzipient zur Verwendung nach Anspruch 37, wobei es sich bei der Krankheit, der Störung bzw. dem medizinischen Leiden um Schlaflosigkeit handelt.

Revendications

1. Entité chimique qui est un composé de Formule (I) :



Formule (I)

dans laquelle :

R^1 est un membre choisi dans le groupe constitué de :

A) phényle substitué ou non substitué par un ou deux chaînons R^a et substitué en position *ortho* par R^b ;
R^a est indépendamment choisi dans le groupe constitué de : -H, halogéno, - (alkyle en C_{1-4}), - (alcoxy en C_{1-4}), et $-NO_2$, où deux chaînons R^a adjacents peuvent former conjointement un cycle aromatique de six chaînons ;
R^b est un membre choisi dans le groupe constitué de :

a) halogéno, - (alcoxy en C_{1-4}), - (alkyle en C_{1-4}), $-CF_3$, $-OCF_3$ ou -CN ;
b) cycle hétéroaryle de 5 chaînons contenant un chaînon d'oxygène ou de soufre ;
c) cycle hétéroaryle de 5 à 6 chaînons contenant un, deux ou trois chaînons d'azote, contenant facultativement un chaînon d'oxygène, substitué ou non substitué par halogéno ou - (alkyle en C_{1-4}) ; et
d) phényle substitué ou non substitué par halogéno, $-CH_3$, ou $-CF_3$;

B) pyridine substituée ou non substituée par un ou deux chaînons R^c et substituée par R^d, où R^d est en position adjacente au point de liaison par R^1 ;
R^c est alkyle en C_{1-4} ;

R^d est un membre choisi dans le groupe constitué de :

a) cycle hétéroaryle de 5 à 6 chaînons choisi dans le groupe constitué de : 1H-1,2,3-triazol-1-yle, 2H-1,2,3-triazol-2-yle, 1H-pyrazol-5-yle, 3-méthyl-1,2,4-oxadiazol-5-yle, pyridinyle, 3-méthyl-pyridin-2-yle ; 1-(tétrahydro-2H-pyran-2-yl)-1H-pyrazol-5-yle), phényle, et pyrimidin-2-yle ; et
b) $-CF_3$, -Br, et - (alcoxy en C_{1-4}) ;

C) cycle hétéroaryle de 5 chaînons choisi dans le groupe constitué de : 2-méthyl-1,3-thiazol-yle, 1H-pyrazol-5-yle, oxazole, isoxazolyle, thiophén-2-yle, et furan-2-yle, chacun substitué par phényle substitué ou non substitué par -F ; et
D) aryle de 5 à 13 chaînons ou cycle hétéroaryle choisi dans le groupe constitué de : 3-méthylfuran-2-yle, 9H-fluorène, quinoléine, cinnoline ; 3-(1H-pyrrol-1-yl)thiophén-2-yle, 8-[1,2,3]-triazol-2-yl-naphtalén-1-yle, 2,3-dihydro-1,4-benzodioxin-5-yle, 1H-indol-7-yle, 4-fluoronaphtalén-1-yle, et naphtalén-1-yle ;

R^2 est un membre choisi dans le groupe constitué de :

A) cycle hétéroaryle de 6 chaînons contenant deux chaînons d'azote substitués par un ou plusieurs chaînons indépendamment choisis dans le groupe constitué de : halogéno, - (alkyle en C_{1-4}) , $-CD_3$,-D, - (alcoxy en C_{1-4}), cyclopropyle, morpholin-2-yle, $-CO_2$(alkyle en C_{1-4}), $-CO_2H$, $-CH_2OH$, - C(O)N(alkyle en C_{1-4})$_2$, $-CF_3$, -CN, -OH, $-NO_2$,-N (alkyle en C_{1-4})$_2$, phényle, furan-2-yle, thiophén-2-yle, 1H-pyrazol-4-yle, et pyrrolidin-1-yle ;
B) pyridine substitué par un ou deux chaînons indépendamment choisis dans le groupe constitué de : halogéno, - (alkyle en C_{1-4}), - (alcoxy en C_{1-4}), et $-CF_3$;
C) cycle hétéroaryle de 9 chaînons choisi dans le groupe constitué de benzooxazol-2-yle, 6-fluoro-1,3-benzothiazole, 1,3-benzothiazole, 6-méthoxy-1,3-benzothiazole, 6-méthyl-1,3-benzothiazole, 6-chloro-benzothiazol-2-yle, et 4-méthyl-6,7-dihydro-5H-cyclopenta[d]pyrimidine ;
D) cycle hétéroaryle de 10 chaînons choisi dans le groupe constitué de quinoxalin-2-yle, 3-méthylquinoxalin-2-yle, 6,7-difluoroquinoxalin-2-yle, 3-(trifluorométhyl)quinoxaline, quinoléine, 4-méthylquinoléine, et 6-fluoroquinazolin-2-yle ; et
E) 4-méthyl-1,3,5-triazin-2-yle ou 2-méthylpyrimidin-4(3H)-one ;

et des sels pharmaceutiquement acceptable de composés de formule (I).

2. Entité chimique selon la revendication 1, **caractérisée en ce que** l'entité chimique est la [5-(4,6-diméthyl-pyrimidin-2-yl)-hexahydro-pyrrolo[3,4-c]pyrrol-2-yl]-(2-fluoro-6-[1,2,3]triazol-2-yl-phényl)-méthanone ou un sel pharmaceutiquement acceptable de celle-ci.

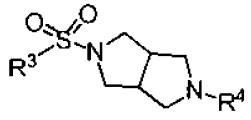
3. Entité chimique selon la revendication 2, **caractérisée en ce que** l'entité chimique est le sel de HCl de [5-(4,6-diméthyl-pyrimidin-2-yl)-hexahydro-pyrrolo[3,4-c]pyrrol-2-yl]-(2-fluoro-6-[1,2,3]triazol-2-yl-phényl)-méthanone.

4. Entité chimique selon la revendication 2, **caractérisée en ce que** l'entité chimique est la [5-(4,6-diméthyl-pyrimidin-2-yl)-hexahydro-pyrrolo[3,4-c]pyrrol-2-yl]-(2-fluoro-6-[1,2,3]triazol-2-yl-phényl)-méthanone.

5. Entité chimique selon la revendication 1, **caractérisée en ce que** l'entité chimique est le 2-(4,6-diméthylpyrimidin-2-yl)-5-{[4-méthoxy-2-(2H-1,2,3-triazol-2-yl)phényl]carbonyl}octahydropyrrolo-[3,4-c]pyrrole ou un sel pharmaceutiquement acceptable de celui-ci.

6. Entité chimique selon la revendication 5, **caractérisée en ce que** l'entité chimique est le 2-(4,6-diméthylpyrimidin-2-yl)-5-{[4-méthoxy-2-(2H-1,2,3-triazol-2-yl)phényl]carbonyl}octahydropyrrolo[3,4-c]pyrrole.

7. Entité chimique choisie parmi des composés de formule (II) :



(II)

dans laquelle

R^3 est phényle substitué ou non substitué par un membre indépendamment choisi dans le groupe constitué de : - (alcoxy en C_{1-4}), et phényle ;
et R^4 est un membre choisi dans le groupe constitué de (5-trifluorométhyl)-pyridin-2-yle, (5-trifluorométhyl)-pyrimidin-2-yle, 4,6-diméthylpyrimidin-2-yle, et quinoxalin-2-yle ;

et des sels pharmaceutiquement acceptables de composés de formule (II) .

8. Entité chimique définie dans la revendication 1, dans laquelle R^1 est phényle, où R^a est un membre indépendamment choisi dans le groupe constitué de -F, -I, -Cl, $-OCH_3$, $-OCH_2CH_3$, $-CH_3$,$-CH(CH_3)_2$, $-C(CH_3)_3$ et $-NO_2$.

9. Entité chimique définie dans la revendication 1, dans laquelle R^1 est phényle où R^b est un membre choisi dans le groupe constitué de -Br, -F,-I, - (alkyle en C_{1-4}), $-OCH_3$, $-OCH_2CH_3$, -CN, $-CF_3$ et $-OCF_3$.

10. Entité chimique définie dans la revendication 1, dans laquelle R^1 est phényle, où R^a est choisi dans le groupe constitué de -H, -F, -Cl, $-CH_3$,$-C(CH_3)_3$, $-OCH_3$, et $-OCH_2CH_3$, et R^b est choisi dans le groupe constitué de -Br, -F, -I, - (alkyle en C_{1-4}) ,$-OCH_3$, $-OCH_2CH_3$, -CN, $-CF_3$, et $-OCF_3$.

11. Entité chimique définie dans la revendication 1, dans laquelle R^1 est phényle, où R^b est 2-thiophén-2-yle ou 2-furan-2-yle.

12. Entité chimique définie dans la revendication 1, dans laquelle R^1 est phényle, où R^b est choisi dans le groupe constitué de phényle, 3-chlorophényle, 4-fluorophényle, 3-fluorophényle, 4-méthylphényle, et 4-trifluorométhylphényle.

13. Entité chimique définie dans la revendication 1, dans laquelle R^1 est phényle, où R^b est un membre choisi dans le groupe constitué de 1H-pyrrol-1-yle, 1H-pyrazol-1-yle, 1H-pyrazol-5-yle, 1H-imidazol-2-yle, 1-méthyl-1H-imidazol-2-yle, 1H-1,2,3-triazol-1-yle, 2H-1,2,3-triazol-2-yle, 2H-1,2,3-triazol-1-yle, 1H-1,2,4-triazol-5-yle, 2H-1,2,4-triazol-1-yle, 2H-1,2,4-triazol-3-yle, 4H-1,2,4-triazol-3-yle, 4H-1,2,4-triazol-4-yle, 1-méthyl-1H-1,2,4-triazol-3-yle, 1-méthyl-1H-1,2,4-triazol-5-yle et 1-(tétrahydro-2H-pyran-2-yl)-1H-pyrazol-5-yle.

14. Entité chimique définie dans la revendication 1, dans laquelle R^1 est phényle, où R^b est un membre choisi dans le groupe constitué de pyridin-2-yle, 3-chloropyridin-2-yle, 3-fluoropyridin-2-yle, 3-méthylpyridin-2-yle, 4-méthylpyridin-2-yle, 5-méthylpyridin-2-yle, 6-méthylpyridin-2-yle, 2-pyridin-3-yle, et 2-pyrimidin-2-yle.

15. Entité chimique définie dans la revendication 1, dans laquelle R^1 est phényle, où R^b est un membre choisi dans le groupe constitué de 3-méthyl-1,2,4-oxadiazol-5-yle et oxazol-2-yle.

16. Entité chimique définie dans la revendication 1, dans laquelle R^1 est phényle, où R^a est halogéno, - (alkyle en C_{1-4}), ou - (alcoxy en C_{1-4}), et R^b est triazole ou pyrimidine substituée ou non substituée par halogéno ou - (alkyle en C_{1-4}).

17. Entité chimique définie dans la revendication 1, dans laquelle R^1 est (1-méthyléthyl)-2-(2H-1,2,3-triazol-2-yl)phényle, 2-(1H-1,2,3-triazol-1-yl)phényle, 2-(2H-1,2,3-triazol-2-yl)phényle, 2-fluoro-6-(2H-1,2,3-triazol-2-yl)phényle, 2-méthyl-6-(2H-1,2,3-triazol-2-yl)phényle, 3-fluoro-2-(2H-1,2,3-triazol-2-yl)phényle, 3-fluoro-2-(1H-1,2,3-triazol-1-yl)phényle, 3-méthoxy-2-(1H-1,2,3-triazol-1-yl)phényle, 3-méthoxy-2-(2H-1,2,3-triazol-2-yl)phényle, 3-méthyl-2-(2H-1,2,3-triazol-2-yl)phényle, 3-méthyl-2-(1H-1,2,3-triazol-1-yl)phényle, 4-fluoro-2-(2H-1,2,3-triazol-2-yl)phényle, 4-méthoxy-2-(2H-1,2,3-triazol-2-yl)phényle, 4-méthoxy-2-(1H-1,2,3-triazol-2-yl)phényle, 4,5-diméthoxy-2-[1,2,3]triazol-1-yl-phényle, 4,5-diméthoxy-2-[1,2,3]triazol-2-yl-phényle, 5-[1,2,3]triazol-2-yl-benzo[1,3]dioxol-4-yle, 5-chloro-2-(2H-1,2,3-triazol-2-yl)phényle, 5-fluoro-2-(2H-1,2,3-triazol-2-yl)phényle, 5-iodo-2-(2H-1,2,3-triazol-2-yl)phényle, 5-méthoxy-2-(2H-1,2,3-triazol-2-yl)phényle, 5-méthyl-2-(2H-1,2,3-triazol-2-yl)phényle, 1-[1,2,3]triazol-2-yl-naphtalén-2-yle, 2-(1H-1,2,4-triazol-1-yl)phényle, 2-(1H-1,2,4-triazol-5-yl)phényle, 2-(1-méthyl-1H-1,2,4-triazol-5-yl)phényle, 2-(1-méthyl-1H-1,2,4-triazol-3-yl)phényle, 2-(4H-1,2,4-triazol-3-yl)phényle, 2-(4H-1,2,4-triazol-4-yl)phényle, 2-(3-méthyl-1,2,4-oxadiazol-5-yl)phényle, 3-fluoro-2-(3-méthyl-1,2,4-oxadiazol-5-yl)phényle, 2-fluoro-6-(3-méthyl-1,2,4-oxadiazol-5-yl)phényle, 4,5-difluoro-2-(4H-1,2,4-triazol-4-yl)phényle), 2-fluoro-6-pyrimidin-2-yl-phényle, 2-(pyrimidin-2-yl)pyridin-3-yle, 3-fluoro-2-pyrimidin-2-ylphényle, 4-fluoro-2-(pyrimidin-2-yl)phényle, 4-méthoxy-2-(pyrimidin-2-yl)phényle, 5-fluoro-2-pyrimidin-2-ylphényle, et 5-méthyl-2-pyrimidin-2-ylphényle.

18. Entité chimique définie dans la revendication 1, dans laquelle R^1 est pyridine, où R^d est un membre choisi dans le groupe constitué de $-CF_3$,-Br, et $-OCH_2CH_2CH_3$.

19. Entité chimique définie dans la revendication 1, dans laquelle R^1 est pyridine, où R^d est un membre choisi dans le groupe constitué de 1H-pyrazol-5-yle, 2H-1,2,3-triazol-2-yle, 2H-1,2,3-triazol-2-yle, 4H-1,2,3-triazol-1-yle, 1-(tétrahydro-2H-pyran-2-yl)-1H-pyrazol-5-yle, 3-méthylpyridin-2-yle, et 3-méthyl-1,2,4-oxadiazol-5-yle.

20. Entité chimique définie dans la revendication 1, dans laquelle R^1 est pyridine, où R^d est un membre choisi dans le groupe constitué de 1H-pyrazol-5-yle, 2H-1,2,3-triazol-1-yle, et 2H-1,2,3-triazol-2-yle.

21. Entité chimique définie dans la revendication 1, dans laquelle R^1 est 1-phényl-1H-pyrazol-5-yle, 3-phénylthiophén-2-yle, 3-phénylfuran-2-yle, 5-phényl-1,3-oxazol-4-yle, 5-phénylisoxazol-4-yle, 5-(2-fluorophényl)-2-méthyl-1,3-thiazol-4-yle, 2-méthyl-5-phényl-thiazol-4-yle, ou 5-(4-fluorophényl)-2-méthyl-1,3-thiazol-4-yle.

22. Entité chimique définie dans la revendication 1, dans laquelle R^1 est choisi dans le groupe constitué de 3-méthylfuran-2-yle, 9H-fluorène, quinoléine, cinnoline ; 3-(1H-pyrrol-1-yl)thiophén-2-yle, 8-[1,2,3]-triazol-2-yl-naphtalén-1-yle, 2,3-dihydro-1,4-benzodioxin-5-yle, 1H-indol-7-yle, 4-fluoronaphtalén-1-yle, et naphtalén-1-yle et R^2 est choisi dans le groupe constitué de 4,6-diméthylpyrimidin-2-yle, 4-phényl-pyrimidin-2-yle, quinoxaline, et 4-méthoxypyrimidin-2-yle.

23. Entité chimique définie dans la revendication 1, dans laquelle R^2 est pyrimidine substitué par un ou plusieurs chaînons indépendamment choisi dans le groupe constitué de -F, -Cl, -D, $-CD_3$,$-CH_3$, éthyle, isopropyle, propyle, tert-butyle, $-CF_3$,$-OCH_3$, $-N(CH_3)_2$, -CN, -OH, $-CH_2OH$, $-NO_2$, $-CO_2CH_3$, $-CO_2H$,$-C(O)N(CH_3)_2$, phényle, furan-2-yle, thiophén-2-yle, 1H-pyrazol-4-yle, cyclopropyle, pyrrolidin-1-yle, et morpholin-4-yle.

24. Entité chimique définie dans la revendication 1, dans laquelle R^2 est 4,6-diméthylpyrimidin-2-yle, 4,5-diméthylpyrimidin-2-yle, 4,6-diméthoxypyrimidin-2-yle, 4-phényl-pyrimidin-2-yle, 4-furan-2-ylpyrimidin-2-yle, 4-méthylpyrimidin-2-yle, 4-méthoxypyrimidin-2-yle, 4-thiophén-2-ylpyrimidin-2-yle, N,N,6-triméthyl-pyrimidin-4-amine, 4-(trifluorométhyl)pyrimidin-2-yle, 4,5,6-triméthylpyrimidin-2-yle, 4-(trifluorométhyl)pyrimidine-5-carboxylate, acide 4-(trifluorométhyl)pyrimidine-5-carboxylique, 5-nitro-pyrimidin-2-yle, acide 6-méthylpyrimidine-4-carboxylique, N,N-diméthyl-4-(trifluorométhyl)pyrimidine-5-carboxamide, N,N,6-triméthylpyrimidine-carboxamide, 6-méthylpyrimidine-4-carbonitrile, 4,6-bis(trifluorométhyl)pyrimidin-2-yle, 6-méthyl-pyrimidin-4-ol, 4-(furan-2-yl)-6-méthylpyrimidin-2-yle, 5-fluoro-4-méthylpyrimidin-2-yle, 5-fluoropyrimidin-2-yle, 4-méthoxy-6-méthylpyrimidin-2-yle, 4-éthyl-6-méthylpyrimidin-2-yle, 4-isopropyl-6-méthylpyrimidin-2-yle, 4-tert-butyl-6-méthylpyrimidin-2-yle, 4-cyclopropyl-6-méthylpyrimidin-2-yle, 4-méthyl-6-morpholin-4-ylpyrimidin-2-yle, 5-chloro-4-méthylpyrimidin-2-yle, 5-chloro-4,6-diméthylpyrimidin-2-yle, 5-fluoro-4,6-diméthylpyrimidin-2-yle, 5-trifluorométhylpyrimidin-2-yle, 4, 6-bis [(^{2}H3)méthyl] (2H)pyrimidin-2-yle, et 5-éthyl-4,6-diméthylpyrimidin-2-yle.

25. Entité chimique définie dans la revendication 1, dans laquelle R^2 est pyrimidine substituée par un ou plusieurs chaînons indépendamment choisis dans le groupe constitué de -Cl, -F, $-CH_3$, $-CF_3$, $-N(CH_3)_2$, -D, et $-CD_3$.

26. Entité chimique définie dans la revendication 1, dans laquelle R^2 est 4,6-diméthylpyrimidin-2-yle, 4,5-diméthylpyrimidin-2-yl,4,6-diméthoxypyrimidin-2-yle, 4-méthylpyrimidin-2-yle, 4-méthoxypyrimidin-2-yle, N,N,6-triméthyl-pyrimidin-4-amine, 4-(trifluorométhyl)pyrimidin-2-yle, 4,5,6-triméthylpyrimidin-2-yle, 4,6-bis(trifluorométhyl)pyrimidin-2-yle, 6-méthyl-pyrimidin-4-ol, 5-fluoro-4-méthylpyrimidin-2-yle, 5-fluoropyrimidin-2-yle, 4-méthoxy-6-méthylpyrimidin-2-yle, 5-chloro-4-méthylpyrimidin-2-yle, 5-chloro-4,6-diméthylpyrimidin-2-yle, 5-fluoro-4,6-diméthylpyrimidin-2-yle, 5-trifluorométhylpyrimidin-2-yle, et 4, 6-bis [(^{2}H3)méthyl] (^{2}H)pyrimidin-2-yle.

27. Entité chimique définie dans la revendication 1, dans laquelle R^2 est pyrazine ou triazine substituée par un ou plusieurs $-CH_3$.

28. Entité chimique définie dans la revendication 1, dans laquelle R^2 est pyridine substituée par un ou plusieurs chaînons indépendamment choisis dans le groupe constitué de -F, $-OCH_3$, $-OCH_2CH_3$, $-CH_3$ et $-CF_3$.

29. Entité chimique définie dans la revendication 1, dans laquelle R^2 est un membre choisi dans le groupe constitué de benzooxazol-2-yle, 2-méthylpyrimidin-4(3H)-one et 4-méthyl-6,7-dihydro-5H-cydopenta[d]pyrimidine et R^1 est phényle, substitué en position *ortho* par R^b, où R^b est 2H-1,2,3-triazol-2-yle, 2H-1,2,3-triazol-1-yle, 3-méthyl-1,2,4-oxadiazol-5-yle ou 2-pyrimidin-2-yle.

30. Entité chimique définie dans la revendication 1, dans laquelle R^2 est un membre choisi dans le groupe constitué de quinoxalin-2-yle, 3-méthylquinoxalin-2-yle, 6,7-difluoroquinoxalin-2-yle, 3-(trifluorométhyl)quinoxaline, 4-méthyl-quinoléine, et 6-fluoroquinazolin-2-yle et R^1 est phényle substitué en position *ortho* par R^b, où R^b est 2H-1,2,3-triazol-2-yle, 2H-1,2,3-triazol-1-yle, 3-méthyl-1,2,4-oxadiazol-5-yle ou 2-pyrimidin-2-yle.

31. Entité chimique définie dans la revendication 7, dans laquelle R^3 est biphényle ou 2-méthoxyphényle et R^4 est (5-trifluorométhyl)-pyridin-2-yle, (5-trifluorométhyl)-pyrimidin-2-yle, 4,6-diméthylpyrimidin-2-yle, ou quinoxalin-2-yle.

32. Entité chimique définie dans la revendication 1, dans laquelle R^1 est un membre choisi dans le groupe constitué de 2-(1H-1,2,3-triazol-1-yl)phényle, 2-(2H-1,2,3-triazol-2-yl)phényle, 2-fluoro-6-(2H-1,2,3-triazol-2-yl)phényle, 2-méthyl-6-(2H-1,2,3-triazol-2-yl)phényle, 3-fluoro-2-(2H-1,2,3-triazol-2-yl)phényle, 3-fluoro-2-(1H-1,2,3-triazol-1-yl)phényle, 3-méthoxy-2-(1H-1,2,3-triazol-1-yl)phényle, 3-méthoxy-2-(2H-1,2,3-triazol-2-yl)phényle, 3-méthyl-2-(2H-1,2,3-triazol-2-yl)phényle, 3-méthyl-2-(1H-1,2,3-triazol-1-yl)phényle, 4-fluoro-2-(2H-1,2,3-triazol-2-yl)phényle, 4-méthoxy-2-(2H-1,2,3-triazol-2-yl)phényle, 4-méthoxy-2-(1H-1,2,3-triazol-2-yl)phényle, 4,5-diméthoxy-2-[1,2,3]triazol-1-yl-phényle, 4,5-diméthoxy-2-[1,2,3]triazol-2-yl-phényle, 5-chloro-2-(2H-1,2,3-triazol-2-yl)phényle, 5-fluoro-2-(2H-1,2,3-triazol-2-yl)phényle, 5-méthoxy-2-(2H-1,2,3-triazol-2-yl)phényle, 5-méthyl-2-(2H-1,2,3-triazol-2-yl)phényle, 2-(1H-1,2,4-triazol-1-yl)phényle, 2-(1H-1,2,4-triazol-5-yl)phényle, 2-(1-méthyl-1H-1,2,4-triazol-5-yl)phényle, 2-(1-méthyl-1H-1,2,4-triazol-3-yl)phényle, 2-(4H-1,2,4-triazol-3-yl)phényle, 2-(4H-1,2,4-triazol-4-yl)phényle, 2-(3-méthyl-1,2,4-oxadiazol-5-yl)phényle, 3-fluoro-2-(3-méthyl-1,2,4-oxadiazol-5-yl)phényle, 2-fluoro-6-(3-méthyl-1,2,4-oxadiazol-5-yl)phényle, 4,5-difluoro-2-(4H-1,2,4-triazol-4-yl)phényl), 2-fluoro-6-pyrimidin-2-ylphényle, 2-(pyrimidin-2-yl)pyridin-3-yle, 3-fluoro-2-pyrimidin-2-ylphényle, 4-fluoro-2-(pyrimidin-2-yl)phényle, 4-méthoxy-2-(pyrimidin-2-yl)phényle, 5-fluoro-2-pyrimidin-2-ylphényle, et 5-méthyl-2-pyrimidin-2-ylphényle et R^2 est un membre choisi dans le groupe constitué de 4,6-diméthylpyrimidin-2-yle, 4,5-diméthylpyrimidin-2-yl,4,6-diméthoxypyrimidin-2-yle, 4-méthylpyrimidin-2-yle, 4-méthoxypyrimidin-2-yle, N,N,6-triméthyl-pyrimidin-4-amine, 4-(trifluorométhyl)pyrimidin-2-yle, 4,5,6-triméthylpyrimidin-2-yle, 4,6-bis(trifluorométhyl)pyrimidin-2-yle, 6-méthyl-pyrimidin-4-ol, 5-fluoro-4-méthylpyrimidin-2-yle, 5-fluoropyrimidin-2-yle, 4-méthoxy-6-méthylpyrimidin-2-yle, 5-chloro-4-méthylpyrimidin-2-yle, 5-chloro-4,6-diméthylpyrimidin-2-yle, 5-fluoro-4,6-diméthylpyrimidin-2-yle, 5-trifluorométhylpyrimidin-2-yle, et 4,6-bis[(^{2}H3)méthyl] (2H)pyrimidin-2-yle.

33. Entité chimique définie dans la revendication 1, dans laquelle R^1 est un membre choisi dans le groupe constitué de 3-fluoro-2-(3-méthyl-1,2,4-oxadiazol-5-yl)phényle, 6-fluoro-2-(2H-1,2,3-triazol-2-yl)phényle, 4-méthoxy-2-(2H-1,2,3-triazol-2-yl)phényle, et 3-[1,2,3]triazol-2-yl-pyridin-2-yle et R^2 est un membre choisi dans le groupe constitué de 4,6-diméthylpyrimidin-2-yle, 5-fluoro-4,6-diméthylpyrimidin-2-yle, et 5-fluoro-4-méthylpyrimidin-2-yle.

34. Entité chimique choisie dans le groupe constitué de :

4-[5-{[2-fluoro-6-(2H-1,2,3-triazol-2-yl)phényl]carbonyl}hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl]-6-méthoxy-N,N-diméthylpyrimidin-2-amine ;
N,N-diméthyl-6-[5-{[2-(2H-1,2,3-triazol-2-yl)phényl]carbonyl}hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl]-2-(trifluorométhyl)pyrimidin-4-amine ;
6-[5-{[2-fluoro-6-(2H-1,2,3-triazol-2-yl)phényl]carbonyl}hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl]-N,N-diméthyl-2-(trifluorométhyl)pyrimidin-4-amine ;
4-[5-{[5-fluoro-2-(2H-1,2,3-triazol-2-yl)phényl]carbonyl}hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl]-6-méthoxy-N,N-diméthylpyrimidin-2-amine ;
4-méthoxy-N,N-diméthyl-6-[5-{[2-(2H-1,2,3-triazol-2-yl)phényl]carbonyl}hexahydropyrrolo-[3,4-c]pyrrol-2(1H)-yl]pyrimidin-2-amine ;
6-[5-{[4-fluoro-2-(2H-1,2,3-triazol-2-yl)phényl]carbonyl}hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl]-N,N-diméthyl-2-(trifluorométhyl)pyrimidin-4-amine ;
4-[5-{[4-fluoro-2-(2H-1,2,3-triazol-2-yl)phényl]carbbnyl}hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl]-6-méthoxy-N,N-diméthylpyrimidin-2-amine ;
2-(4,6-diméthyl-pyrimidin-2-yl)-5-{[3-(1H-pyrrol-1-yl)thiophén-2-yl]carbonyl}octahydro-pyrrolo[3,4-c]pyrrole ;
6-[5-{[5-fluoro-2-(2H-1,2,3-triazol-2-yl)phényl]carbonyl}hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl]-N,N-diméthyl-2-(trifluorométhyl)pyrimidin-4-amine ;
2-(4,6-diméthylpyrimidin-2-yl)-5-[(1-phényl-1H-pyrazol-5-yl)carbonyl]octahydropyrrolo[3,4-c]pyrrole ;
8-{[5-(4,6-diméthylpyrimidin-2-yl)hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl]carbonyl}-quinoléine ;
2-(4,6-diméthylpyrimidin-2-yl)-5-[(3-phénylthiophén-2-yl)carbonyl]octahydropyrrolo[3,4-c]pyrrole ;
2-(4,6-diméthylpyrimidin-2-yl)-5-[(3-phénylfuran-2-yl)carbonyl]octahydropyrrolo[3,4-c]pyrrole ;
2-(4,6-diméthylpyrimidin-2-yl)-5-{[2-(1H-1,2,4-triazol-5-yl)phényl]carbonyl}octahydro-pyrrolo[3,4-c]pyrrole ;

2-(4,6-diméthyl-pyrimidin-2-yl)-5-{[3-fluoro-2-(2H-1,2,3-triazol-2-yl)phényl]carbonyl}octahydropyrrolo-[3,4-c]pyrrole ;
2-{5-[(2,4-diméthoxyphényl)carbonyl]hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl}-6-fluoro-1,3-benzothiazole ;
2-{5-[(2,4-diméthoxyphényl)carbonyl]hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl}-1,3-benzothiazole ;
2-[5-{[2-(1H-pyrazol-1-yl)phényl]carbonyl}-hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl]quinoxaline ;
2-{5-[(2-thiophén-2-ylphényl)carbonyl]-hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl}quinoxaline ;
2-{5-[(2-méthylnaphtalén-1-yl)carbonyl]hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl}quinoxaline ;
2-(2,3-dihydro-1,4-benzodioxin-5-ylcarbonyl)-5-(4-phénylpyrimidin-2-yl)octahydropyrrolo[3,4-c]pyrrole ;
2-(4-phénylpyrimidin-2-yl)-5-[(2-thiophén-2-ylphényl)carbonyl]octahydro-pyrrolo[3,4-c]pyrrole ;
2-(4-phénylpyrimidin-2-yl)-5-{[2-(1H-pyrazol-1-yl)phényl]carbonyl}octahydro-pyrrolo[3,4-c]pyrrole ;
2-(4-phénylpyrimidin-2-yl)-5-{[2-(1H-pyrrol-1-yl)phényl]carbonyl}octahydro-pyrrolo[3,4-c]pyrrole ;
2-[(2-méthylnaphtalén-1-yl)carbonyl]-5-(4-phénylpyrimidin-2-yl)octahydropyrrolo[3,4-c]pyrrole ;
2-(5-quinoxalin-2-yl-hexahydro-pyrrolo[3,4-c]pyrrole;-2-carbonyl)-benzonitrile ;
2-[5-{[2-(1H-pyrrol-1-yl)phényl]carbonyl}hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl]quinoxaline ;
2-{5-[(4'-fluorobiphényl-2-yl)carbonyl]hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl}quinoxaline ;
2-{5-[(3'-fluorobiphényl-2-yl)carbonyl]hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl}quinoxaline ;
2-{5-[(2-méthylphényl)carbonyl]hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl}quinoxaline ;
2-(biphényl-2-ylcarbonyl)-5-(4-furan-2-ylpyrimidin-2-yl)octahydropyrrolo[3,4-c]pyrrole ;
2-(4-méthylpyrimidin-2-yl)-5-[(2-thiophén-2-ylphényl)carbonyl]octahydro-pyrrolo[3,4-c]pyrrole ;
2-{5-[(2-thiophén-2-ylphényl)carbonyl]-hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl}quinoléine ;
2-(4-furan-2-ylpyrimidin-2-yl)-5-[(2-thiophén-2-ylphényl)carbonyl]octahydro-pyrrolo[3,4-c]pyrrole ;
2-{5-[(2-éthylphényl)carbonyl]hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl}quinoxaline ;
2-[5-(1H-indol-7-ylcarbonyl)hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl]quinoxaline ;
2-[(2-thiophén-2-ylphényl)carbonyl]-5-(4-thiophén-2-ylpyrimidin-2-yl)octahydro-pyrrolo[3,4-c]pyrrole ;
2-(biphényl-2-ylcarbonyl)-5-(4-thiophén-2-ylpyrimidin-2-yl)octahydropyrrolo[3,4-c]pyrrole ;
[5-(4,6-diméthyl-pyrimidin-2-yl)-hexahydro-pyrrolo[3,4-c]pyrrol-2-yl]-[2-(1-méthyl-1H-imidazol-2-yl)-phényl]-méthanone ;
2-[(2-bromophényl)carbonyl]-5-(4-phénylpyrimidin-2-yl)octahydropyrrolo[3,4-c]pyrrole ;
2-{5-[(3'-chlorobiphényl-2-yl)carbonyl]hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl}quinoxaline ;
2-{5-[(2-bromophényl)carbonyl]hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl}quinoxaline ;
2-(4,6-diméthylpyrimidin-2-yl)-5-[(2-thiophén-2-ylphényl)carbonyl]octahydro-pyrrolo[3,4-c]pyrrole ;
2-(biphényl-2-ylcarbonyl)-5-(4,6-diméthylpyrimidin-2-yl)octahydropyrrolo[3,4-c]pyrrole ;
2-(4-méthoxypyrimidin-2-yl)-5-[(2-thiophén-2-ylphényl)carbonyl]octahydro-pyrrolo[3,4-c]pyrrole ;
6-fluoro-2-{5-[(2-thiophén-2-ylphényl)carbonyl]hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl}-1,3-benzothiazole ;
2-(4,6-diméthylpyrimidin-2-yl)-5-[(2-méthylnaphtalén-1-yl)carbonyl]octahydro-pyrrolo[3,4-c]pyrrole ;
2-[(3'-fluorobiphényl-2-yl)carbonyl]-5-(4-méthylpyrimidin-2-yl)octahydro-pyrrolo[3,4-c]pyrrole ;
2-(4-méthoxypyrimidin-2-yl)-5-[(2-méthylnaphtalén-1-yl)carbonyl]octahydro-pyrrolo[3,4-c]pyrrole ;
2-[(2-méthylnaphtalén-1-yl)carbonyl]-5-(4-méthylpyrimidin-2-yl)octahydro-pyrrolo[3,4-c]pyrrole ;
2-[(3'-fluorobiphényl-2-yl)carbonyl]-5-(4-méthoxypyrimidin-2-yl)octahydro-pyrrolo[3,4-c]pyrrole ;
2-(4,6-diméthylpyrimidin-2-yl)-5-[(3'-fluorobiphényl-2-yl)carbonyl]octahydro-pyrrolo[3,4-c]pyrrole ;
[5-(4,6-diméthyl-pyrimidin-2-yl)-hexahydro-pyrrolo[3,4-c]pyrrol-2-yl]-(2-fluoro-phényl)-méthanone ;
2-(4-méthoxypyrimidin-2-yl)-5-[(4'-méthylbiphényl-2-yl)carbonyl]octahydro-pyrrolo[3,4-c]pyrrole ;
2-[(3'-chlorobiphényl-2-yl)carbonyl]-5-(4-méthoxypyrimidin-2-yl)octahydro-pyrrolo[3,4-c]pyrrole ;
2-[(2-éthoxynaphtalén-1-yl)carbonyl]-5-(4-méthoxypyrimidin-2-yl)octahydropyrrolo[3,4-c]pyrrole ;
2-[(4-fluoronaphtalén-1-yl)carbonyl]-5-(4-méthoxypyrimidin-2-yl)octahydro-pyrrolo[3,4-c]pyrrole ;
2-(4-méthoxypyrimidin-2-yl)-5-(naphtalén-1-ylcarbonyl)octahydropyrrolo[3,4-c]pyrrole ;
2-[(2-éthoxyphényl)carbonyl]-5-(4-méthoxypyrimidin-2-yl)octahydropyrrolo[3,4-c]pyrrole ;
2-[(2-méthoxynaphtalén-1-yl)carbonyl]-5-(4-méthoxypyrimidin-2-yl)octahydropyrrolo[3,4-c]pyrrole ;
2-(biphényl-2-ylcarbonyl)-5-[4-(1H-pyrazol-4-yl)pyrimidin-2-yl]octahydro-pyrrolo[3,4-c]pyrrole ;
2-[4-(1H-pyrazol-4-yl)pyrimidin-2-yl]-5-[(2-thiophén-2-ylphényl)carbonyl]octahydro-pyrrolo[3,4-c]pyrrole ;
2-(3,6-diméthylpyrazin-2-yl)-5-[(2-thiophén-2-ylphényl)carbonyl]octahydro-pyrrolo[3,4-c]pyrrole ;
2-(biphényl-2-ylcarbonyl)-5-(3,5-diméthylpyrazin-2-yl)octahydropyrrolo[3,4-c]pyrrole ;
2-méthyl-3-{5-[(2-thiophén-2-ylphényl)carbonyl]hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl}quinoxaline ;
2-[5-(biphényl-2-ylcarbonyl)hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl]-3-méthylquinoxaline ;
2-(4,6-diméthylpyrimidin-2-yl)-5-{[2-(1H-pyrazol-1-yl)phényl]carbonyl}octahydro-pyrrolo[3,4-c]pyrrole ;
2-(4,6-diméthoxypyrimidin-2-yl)-5-[(2-fluoro-6-pyrimidin-2-ylphényl)carbonyl]octahydropyrrolo[3,4-c]pyrrole ;
2-(4,6-diméthylpyrimidin-2-yl)-5-[(2-pyridin-2-ylphényl)carbonyl]octahydro-pyrrolo[3,4-c]pyrrole ;
2-(4,6-diméthoxypyrimidin-2-yl)-5-[(2-pyridin-2-ylphényl)carbonyl]octahydro-pyrrolo[3,4-c]pyrrole ;

2-(4,6-diméthoxypyrimidin-2-yl)-5-[(5-fluoro-2-pyrimidin-2-ylphényl)carbonyl]octahydropyrrolo[3,4-c]pyrrole ;
2-(4,6-diméthoxypyrimidin-2-yl)-5-{[5-fluoro-2-(2H-1,2,3-triazol-2-yl)phényl]carbonyl}octahydropyrrolo[3,4-c]pyrrole ;
2-(4,6-diméthylpyrimidin-2-yl)-5-[(2-fluoro-6-pyrimidin-2-ylphényl)carbonyl]octahydropyrrolo[3,4-c]pyrrole ;
2-(4,6-diméthylpyrimidin-2-yl)-5-[(5-fluoro-2-pyrimidin-2-ylphényl)carbonyl]octahydropyrrolo[3,4-c]pyrrole ;
2-(4,6-diméthylpyrimidin-2-yl)-5-{[5-fluoro-2-(2H-1,2,3-triazol-2-yl)phényl]carbonyl}octahydropyrrolo[3,4-c]pyrrole ;
2-(4,6-diméthylpyrimidin-2-yl)-5-[(2-éthylphényl)carbonyl]octahydropyrrolo[3,4-c]pyrrole ;
2-(4,6-diméthylpyrimidin-2-yl)-5-[(2-éthoxynaphtalén-1-yl)carbonyl]octahydro-pyrrolo[3,4-c]pyrrole ;
2-(4,6-diméthoxypyrimidin-2-yl)-5-{[2-(1H-pyrazol-1-yl)phényl]carbonyl}octahydro-pyrrolo[3,4-c]pyrrole ;
2-(4,6-diméthylpyrimidin-2-yl)-5-[(5-phényl-1,3-oxazol-4-yl)carbonyl]octahydro-pyrrolo[3,4-c]pyrrole ;
2-(4,6-diméthylpyrimidin-2-yl)-5-[(5-phénylisoxazol-4-yl)carbonyl]octahydro-pyrrolo[3,4-c]pyrrole ;
[5-(2-isopropyl-6-méthyl-pyrimidin-4-yl)-hexahydro-pyrrolo[3,4-c]pyrrol-2-yl]-(2-[1,2,3]triazol-2-yl-phényl)-méthanone ;
2-[(2-bromophényl)carbonyl]-5-(4,6-diméthylpyrimidin-2-yl)octahydropyrrolo[3,4-c]pyrrole ;
2-(4,6-diméthylpyrimidin-2-yl)-5-{[2-(2H-1,2,3-triazol-2-yl)phényl]carbonyl}octahydropyrrolo[3,4-c]pyrrole ;
2-(4,6-diméthoxypyrimidin-2-yl)-5-{[2-(2H-1,2,3-triazol-2-yl)phényl]carbonyl}octahydropyrrolo[3,4-c]pyrrole ;
2-[5-{[2-(4H-1,2,4-triazol-3-yl)phényl]carbonyl}hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl]quinoxaline ;
2-[5-{[2-(4H-1,2,4-triazol-3-yl)phényl]carbonyl}hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl]-1,3-benzoxazole ;
2-(4-méthylpyrimidin-2-yl)-5-{[2-(4H-1,2,4-triazol-3-yl)phényl]carbonyl}octahydro-pyrrolo[3,4-c]pyrrole ;
2-(4,6-diméthylpyrimidin-2-yl)-5-[(2-éthoxyphényl)carbonyl]octahydropyrrolo[3,4-c]pyrrole ;
2-(4,6-diméthylpyrimidin-2-yl)-5-{[4-fluoro-2-(trifluorométhyl)phényl]carbonyl}octahydropyrrolo[3,4-c]pyrrole ;
2-(4,6-diméthylpyrimidin-2-yl)-5-[(4-fluoronaphtalén-1-yl)carbonyl]octahydro-pyrrolo[3,4-c]pyrrole ;
2-(4,6-diméthylpyrimidin-2-yl)-5-{[2-(1-méthyléthyl)phényl]carbonyl}octahydro-pyrrolo[3,4-c]pyrrole ;
2-(4,6-diméthylpyrimidin-2-yl)-5-[(3-méthoxy-2-méthylphényl)carbonyl]octahydro-pyrrolo[3,4-c]pyrrole ;
2-(4,6-diméthylpyrimidin-2-yl)-5-(naphtalén-1-ylcarbonyl)octahydropyrrolo[3,4-c]pyrrole ;
2-[5-{[2-(4H-1,2,4-triazol-3-yl)phényl]carbonyl}hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl]-3-(trifluorométhyl)quinoxaline ;
2-méthyl-3-[5-{[2-(4H-1,2,4-triazol-3-yl)phényl]carbonyl}hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl]quinoxaline ;
2-[6-méthyl-2-(trifluorométhyl)pyrimidin-4-yl]-5-{[2-(4H-1,2,4-triazol-3-yl)phényl]carbonyl}octahydropyrrolo[3,4-c]pyrrole ;
2-[6-méthyl-2-(trifluorométhyl)pyrimidin-4-yl]-5-{[2-(2H-1,2,3-triazol-2-yl)phényl]carbonyl}octahydropyrrolo[3,4-c]pyrrole ;
2-{[2-fluoro-6-(2H-1,2,3-triazol-2-yl)phényl]carbonyl}-5-[6-méthyl-2-(trifluorométhyl)pyrimidin-4-yl]octahydropyrrolo[3,4-c]pyrrole ;
2-{[4-fluoro-2-(2H-1,2,3-triazol-2-yl)phényl]carbonyl}-5-[6-méthyl-2-(trifluorométhyl)pyrimidin-4-yl]octahydropyrrolo[3,4-c]pyrrole ;
2-(6-méthylpyrazin-2-yl)-5-{[5-méthyl-2-(2H-1,2,3-triazol-2-yl)phényl]carbonyl} octahydropyrrolo[3,4-c]pyrrole ;
2-(3,6-diméthylpyrazin-2-yl)-5-{[2-fluoro-6-(2H-1,2,3-triazol-2-yl)phényl]carbonyl}octahydropyrrolo[3,4-c]pyrrole ;
2-(4,6-diméthylpyrimidin-2-yl)-5-[(5-méthyl-2-pyrimidin-2-ylphényl)carbonyl]octahydropyrrolo[3,4-c]pyrrole ;
2-(3,6-diméthylpyrazin-2-yl)-5-[(5-méthyl-2-pyrimidin-2-ylphényl)carbonyl]octahydropyrrolo[3,4-c]pyrrole ;
2-(3,6-diméthylpyrazin-2-yl)-5-{[4-fluoro-2-(2H-1,2,3-triazol-2-yl)phényl]carbonyl}octahydropyrrolo[3,4-c]pyrrole ;
2-(4,6-diméthylpyrimidin-2-yl)-5-{[5-iodo-2-(2H-1,2,3-triazol-2-yl)phényl]carbonyl}octahydropyrrolo[3,4-c]pyrrole ;
4-[5-{[2-fluoro-6-(2H-1,2,3-triazol-2-yl)phényl]carbonyl}hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl]-N,N-diméthyl-6-(trifluorométhyl)pyrimidin-2-amine ;
2-(4,6-diméthylpyrimidin-2-yl)-5-{[2-fluoro-6-(2H-1,2,3-triazol-2-yl)phényl]carbonyl}octahydropyrrolo[3,4-c]pyrrole ;
N,N-diméthyl-4-{5-[(5-méthyl-2-pyrimidin-2-ylphényl)carbonyl]hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl}-6-(trifluorométhyl)pyrimidin-2-amine ;
4-{5-[(5-fluoro-2-pyrimidin-2-ylphényl)carbonyl]hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl}-N,N-diméthyl-6-(trifluorométhyl)pyrimidin-2-amine ;
4-[5-{[5-fluoro-2-(2H-1,2,3-triazol-2-yl)phényl]carbonyl}hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl]-N,N-diméthyl-6-(trifluorométhyl)pyrimidin-2-amine ;
4-[5-{[4-fluoro-2-(2H-1,2,3-triazol-2-yl)phényl]carbonyl}hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl]-N,N-diméthyl-6-(trifluorométhyl)pyrimidin-2-amine ;

2-[(5-méthyl-2-pyrimidin-2-ylphényl)carbonyl]-5-[6-méthyl-2-(trifluorométhyl)pyrimidin-4-yl]octahydropyrrolo[3,4-c]pyrrole ;
2-[(5-fluoro-2-pyrimidin-2-ylphényl)carbonyl]-5-(4-phénylpyrimidin-2-yl)octahydropyrrolo[3,4-c]pyrrole ;
2-{[5-fluoro-2-(2H-1,2,3-triazol-2-yl)phényl]carbonyl}-5-[6-méthyl-2-(trifluorométhyl)pyrimidin-4-yl]octahydropyrrolo[3,4-c]pyrrole ;
[5-(2,6-diméthyl-pyrimidin-4-yl)-hexahydro-pyrrolo[3,4-c]pyrrol-2-yl]-(5-fluoro-2-[1,2,3]triazol-2-yl-phényl)-méthanone ;
4-{5-[(2-fluoro-6-pyrimidin-2-ylphényl)carbonyl]hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl}-N,N-diméthyl-6-(trifluorométhyl)pyrimidin-2-amine ;
2-[(2-fluoro-6-pyrimidin-2-ylphényl)carbonyl]-5-[6-méthyl-2-(trifluorométhyl)pyrimidin-4-yl]octahydropyrrolo[3,4-c]pyrrole ;
2-(4,6-diméthylpyrimidin-2-yl)-5-{[4-fluoro-2-(2H-1,2,3-triazol-2-yl)phényl]carbonyl}octahydropyrrolo[3,4-c]pyrrole ;
N,N,6-triméthyl-2-[5-{[2-(2H-1,2,3-triazol-2-yl)phényl]carbonyl}hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl]pyrimidin-4-amine ;
N,N,4-triméthyl-6-[5-{[2-(2H-1,2,3-triazol-2-yl)phényl]carbonyl}hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl]pyrimidin-2-amine ;
N,N-diméthyl-4-[5-{[2-(2H-1,2,3-triazol-2-yl)phényl]carbonyl}hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl]-6-(trifluorométhyl)pyrimidin-2-amine ;
2-(2,6-diméthyl-pyrimidin-4-yl)-5-{[2-(2H-1,2,3-triazol-2-yl)phényl]carbonyl}octahydropyrrolo[3,4-c]pyrrole ;
[5-(3,6-diméthyl-pyrazin-2-yl)-hexahydro-pyrrolo[3,4-c]pyrrol-2-yl]-(5-méthyl-2-[1,2,3]triazol-2-yl-phényl)-méthanone ;
2-[5-{[5-fluoro-2-(2H-1,2,3-triazol-2-yl)phényl]carbonyl}hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl]-N,N,6-triméthylpyrimidin-4-amine ;
2-(5-méthoxypyridin-2-yl)-5-[(2-thiophén-2-ylphényl)carbonyl]octahydropyrrolo[3,4-c]pyrrole ;
2-[(2-éthoxynaphtalén-1-yl)carbonyl]-5-(4-phénylpyrimidin-2-yl)octahydropyrrolo[3,4-c]pyrrole ;
2-{[5-méthyl-2-(2H-1,2,3-triazol-2-yl)phényl]carbonyl}-5-(4-phénylpyrimidin-2-yl)octahydropyrrolo[3,4-c]pyrrole ;
(4-chloro-2-[1,2,3]triazol-2-yl-phényl)-[5-(4,6-diméthyl-pyrimidin-2-yl)-hexahydro-pyrrolo[3,4-c]pyrrol-2-yl]-méthanone ;
2-(4,6-diméthoxypyrimidin-2-yl)-5-{[5-méthyl-2-(2H-1,2,3-triazol-2-yl)phényl]carbonyl}octahydropyrrolo[3,4-c]pyrrole ;
2-(4,6-diméthylpyrimidin-2-yl)-5-{[5-méthyl-2-(2H-1,2,3-triazol-2-yl)phényl]carbonyl}octahydropyrrolo[3,4-c]pyrrole ;
2-(4-phénylpyrimidin-2-yl)-5-{[2-(2H-1,2,3-triazol-2-yl)phényl]carbonyl}octahydropyrrolo[3,4-c]pyrrole ;
2-(4,6-diméthylpyrimidin-2-yl)-5-{[5-(2-fluorophényl)-2-méthyl-1,3-thiazol-4-yl]carbonyl}octahydropyrrolo[3,4-c]pyrrole ;
2-[(2-thiophén-2-ylphényl)carbonyl]-5-[6-(trifluorométhyl)pyridin-2-yl]octahydropyrrolo[3,4-c]pyrrole ;
2-(6-méthylpyridin-2-yl)-5-[(2-thiophén-2-ylphényl)carbonyl]octahydropyrrolo[3,4-c]pyrrole ;
2-(4-méthylpyrimidin-2-yl)-5-{[2-(2H-1,2,3-triazol-2-yl)phényl]carbonyl}octahydropyrrolo[3,4-c]pyrrole ;
2-(4-méthylpyridin-2-yl)-5-[(2-thiophén-2-ylphényl)carbonyl]octahydropyrrolo[3,4-c]pyrrole ;
2-(6-méthoxypyridin-2-yl)-5-[(2-thiophén-2-ylphényl)carbonyl]octahydropyrrolo[3,4-c]pyrrole ;
2-(4,6-diméthoxypyrimidin-2-yl)-5-[(2-thiophén-2-ylphényl)carbonyl]octahydropyrrolo[3,4-c]pyrrole ;
2-{5-[(2-thiophén-2-ylphényl)carbonyl]hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl}-1,3-benzoxazole ;
2-[(2-thiophén-2-ylphényl)carbonyl]-5-[3-(trifluorométhyl)pyridin-2-yl]octahydropyrrolo[3,4-c]pyrrole ;
[5-(4-phényl-pyrimidin-2-yl)-hexahydro-pyrrolo[3,4-c]pyrrol-2-yl]-[2-(4H-[1,2,4]triazol-3-yl)-phényl]-méthanone ;
2-(4,6-diméthoxypyrimidin-2-yl)-5-{[5-(2-fluorophényl)-2-méthyl-1,3-thiazol-4-yl]carbonyl}octahydropyrrolo[3,4-c]pyrrole ;
2-(4-thiophén-2-ylpyrimidin-2-yl)-5-{[2-(2H-1,2,3-triazol-2-yl)phényl]carbonyl}octahydropyrrolo[3,4-c]pyrrole ;
2-[5-{[2-(2H-1,2,3-triazol-2-yl)phényl]carbonyl}hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl]-1,3-benzoxazole ;
2-{5-[(2-éthoxynaphtalén-1-yl)carbonyl]hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl}quinoxaline ;
2-{5-[(5-fluoro-2-pyrimidin-2-ylphényl)carbonyl]hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl}quinoxaline ;
2-(6-éthoxypyridin-2-yl)-5-{[2-(2H-1,2,3-triazol-2-yl)phényl]carbonyl}octahydropyrrolo[3,4-c]pyrrole ;
2-[(5-fluoro-2-pyrimidin-2-ylphényl)carbonyl]-5-[4-(trifluorométhyl)pyrimidin-2-yl]octahydropyrrolo[3,4-c]pyrrole ;
2-[5-{[2-(2H-1,2,3-triazol-2-yl)phényl]carbonyl}hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl]quinoxaline ;
2-[(5-fluoro-2-pyrimidin-2-ylphényl)carbonyl]-5-(4-méthoxypyrimidin-2-yl)octahydropyrrolo[3,4-c]pyrrole ;

2-(4-furan-2-ylpyrimidin-2-yl)-5-{[2-(2H-1,2,3-triazol-2-yl)phényl]carbonyl}octahydropyrrolo[3,4-c]pyrrole ;
2-(5-fluoropyridin-2-yl)-5-{[2-(2H-1,2,3-triazol-2-yl)phényl]carbonyl}octahydropyrrolo[3,4-c]pyrrole ;
2-{[2-(2H-1,2,3-triazol-2-yl)phényl]carbonyl}-5-[4-(trifluorométhyl)pyrimidin-2-yl]octahydropyrrolo[3,4-c]pyrrole ;
2-(4-méthoxypyrimidin-2-yl)-5-{[2-(1H-1,2,4-triazol-5-yl)phényl]carbonyl}octahydropyrrolo[3,4-c]pyrrole ;
2-(3,6-diméthylpyrazin-2-yl)-5-{[2-(2H-1,2,3-triazol-2-yl)phényl]carbonyl}octahydropyrrolo[3,4-c]pyrrole ;
2-(4-méthoxypyrimidin-2-yl)-5-{[2-(2H-1,2,3-triazol-2-yl)phényl]carbonyl}octahydropyrrolo[3,4-c]pyrrole ;
2-{[5-chloro-2-(2H-1,2,3-triazol-2-yl)phényl]carbonyl}-5-(4,6-diméthylpyrimidin-2-yl)octahydropyrrolo[3,4-c]pyrrole ;
2-{[4-fluoro-2-(2H-1,2,3-triazol-2-yl)phényl]carbonyl}-5-(6-méthylpyrazin-2-yl)octahydropyrrolo[3,4-c]pyrrole ;
2-{[4-fluoro-2-(2H-1,2,3-triazol-2-yl)phényl]carbonyl}-5-(4-méthoxypyrimidin-2-yl)octahydropyrrolo[3,4-c]pyrrole ;
2-(4,6-diméthoxypyrimidin-2-yl)-5-{[4-fluoro-2-(2H-1,2,3-triazol-2-yl)phényl]carbonyl}octahydropyrrolo[3,4-c]pyrrole ;
[5-(4,6-diméthyl-pyrimidin-2-yl)-hexahydro-pyrrolo[3,4-c]pyrrol-2-yl]-(5-méthoxy-2-[1,2,3]triazol-2-yl-phényl)-méthanone ;
(2-fluoro-6-[1,2,3]triazol-2-yl-phényl)-[5-(4-méthoxy-pyrimidin-2-yl)-hexahydro-pyrrolo[3,4-c]pyrrol-2-yl]-méthanone ;
6-chloro-2-{5-[(2,4-diméthoxyphényl)carbonyl]hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl}-1,3-benzothiazole ;
2-(biphényl-2-ylcarbonyl)-5-(4-phénylpyrimidin-2-yl)octahydropyrrolo[3,4-c]pyrrole ;
2-{5-[(2,6-diméthoxyphényl)carbonyl]hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl}quinoxaline ;
2-[(2,6-diméthoxyphényl)carbonyl]-5-(4-phénylpyrimidin-2-yl)octahydropyrrolo[3,4-c]pyrrole ;
2-[(2,4-diméthoxyphényl)carbonyl]-5-(4-phénylpyrimidin-2-yl)octahydropyrrolo[3,4-c]pyrrole ;
2-[5-(biphényl-2-ylcarbonyl)hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl]quinoxaline ;
2-[5-(biphényl-2-ylcarbonyl)hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl]-1,3-benzothiazole ;
2-{5-[(2,4-diméthoxyphényl)carbonyl]hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl}-4-méthylquinoléine ;
2-{5-[(2,4-diméthoxyphényl)carbonyl]hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl}-6-méthoxy-1,3-benzothiazole ;
2-{5-[(2,4-diméthoxyphényl)carbonyl]hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl}-6-méthyl-1,3-benzothiazole ;
2-(biphényl-2-ylcarbonyl)-5-(6-méthylpyridin-2-yl)octahydropyrrolo[3,4-c]pyrrole ;
2-(biphényl-2-ylcarbonyl)-5-(4-méthylpyrimidin-2-yl)octahydropyrrolo[3,4-c]pyrrole ;
2-[5-(biphényl-2-ylcarbonyl)hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl]quinoléine ;
2-[5-(biphényl-2-ylcarbonyl)hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl]-6-fluoro-1,3-benzothiazole ;
2-(biphényl-2-ylcarbonyl)-5-(4-méthoxypyrimidin-2-yl)octahydropyrrolo[3,4-c]pyrrole ;
2-[5-(biphényl-2-ylcarbonyl)hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl]-4-méthylquinoléine ;
(2,4-diméthoxy-phényl)-[5-(4-méthoxy-pyrimidin-2-yl)-hexahydro-pyrrolo[3,4-c]pyrrol-2-yl]-méthanone ;
(5-benzooxazol-2-yl-hexahydro-pyrrolo[3,4-c]pyrrol-2-yl)-(2-méthoxy-phényl)-méthanone ;
(2-pyridin-3-yl-phényl)-(5-quinoxalin-2-yl-hexahydro-pyrrolo[3,4-c]pyrrol-2-yl)-méthanone ;
[5-(4,6-diméthyl-pyrimidin-2-yl)-hexahydro-pyrrolo[3,4-c]pyrrol-2-yl]-[2-(1H-imidazol-2-yl)-phényl]-méthanone ;
(5-benzooxazol-2-yl-hexahydro-pyrrolo[3,4-c]pyrrol-2-yl)-(2,4-diméthoxy-phényl)-méthanone ;
(5-benzooxazol-2-yl-hexahydro-pyrrolo[3,4-c]pyrrol-2-yl)-biphényl-2-yl-méthanone ;
(2,4-diméthoxy-phényl)-[5-(6-méthyl-pyridin-2-yl)-hexahydro-pyrrolo[3,4-c]pyrrol-2-yl]-méthanone ;
(2,4-diméthoxy-phényl)-[5-(4-méthyl-pyrimidin-2-yl)-hexahydro-pyrrolo[3,4-c]pyrrol-2-yl]-méthanone ;
biphényl-2-yl-[5-(6-méthoxy-benzothiazol-2-yl)-hexahydro-pyrrolo[3,4-c]pyrrol-2-yl]-méthanone ;
biphényl-2-yl-[5-(6-méthyl-benzothiazol-2-yl)-hexahydro-pyrrolo[3,4-c]pyrrol-2-yl]-méthanone ;
[5-(6-chloro-benzothiazol-2-yl)-hexahydro-pyrrolo[3,4-c]pyrrol-2-yl]-(2,6-diméthoxy-phényl)-méthanone ;
biphényl-2-yl-[5-(6-chloro-benzothiazol-2-yl)-hexahydro-pyrrolo[3,4-c]pyrrol-2-yl]-méthanone ;
(2,4-diméthoxy-phényl)-(5-quinoxalin-2-yl-hexahydro-pyrrolo[3,4-c]pyrrol-2-yl)-méthanone ;
(5-benzooxazol-2-yl-hexahydro-pyrrolo[3,4-c]pyrrol-2-yl)-(2,6-diméthoxy-phényl)-méthanone ;
(4'-méthyl-biphényl-2-yl)-(5-quinoxalin-2-yl-hexahydro-pyrrolo[3,4-c]pyrrol-2-yl)-méthanone ;
(5-quinoxalin-2-yl-hexahydro-pyrrolo[3,4-c]pyrrol-2-yl)-(4'-trifluorométhyl-biphényl-2-yl)-méthanone ;
(4'-méthyl-biphényl-2-yl)-[5-(4-phényl-pyrimidin-2-yl)-hexahydro-pyrrolo[3,4-c]pyrrol-2-yl]-méthanone ;
[5-(4-phényl-pyrimidin-2-yl)-hexahydro-pyrrolo[3,4-c]pyrrol-2-yl]-(4'-trifluorométhyl-biphényl-2-yl)-méthanone ;
(4-méthoxy-2-méthyl-phényl)-(5-quinoxalin-2-yl-hexahydro-pyrrolo[3,4-c]pyrrol-2-yl)-méthanone ;
(3'-chloro-biphényl-2-yl)-[5-(4-phényl-pyrimidin-2-yl)-hexahydro-pyrrolo[3,4-c]pyrrol-2-yl]-méthanone ;
(2-méthoxy-phényl)-[5-(4-méthoxy-pyrimidin-2-yl)-hexahydro-pyrrolo[3,4-c]pyrrol-2-yl]-méthanone ;
(2-méthoxy-phényl)-[5-(4-méthyl-pyrimidin-2-yl)-hexahydro-pyrrolo[3,4-c]pyrrol-2-yl]-méthanone ;
[5-(4,6-diméthyl-pyrimidin-2-yl)-hexahydro-pyrrolo[3,4-c]pyrrol-2-yl]-(2-méthoxy-phényl)-méthanone ;

2-[5-(4,6-diméthyl-pyrimidin-2-yl)-hexahydro-pyrrolo[3,4-c]pyrrole;-2-carbonyl]-benzonitrile ;
cinnolin-4-yl-[5-(4,6-diméthyl-pyrimidin-2-yl)-hexahydro-pyrrolo[3,4-c]pyrrol-2-yl]-méthanone ;
(5-fluoro-2-pyrimidin-2-yl-phényl)-[5-(6-méthyl-2-trifluorométhyl-pyrirhidin-4-yl)-hexahydro-pyrrolo[3,4-c]pyrrol-2-yl]-méthanone ;
[5-(4,6-diméthyl-pyrimidin-2-yl)-hexahydro-pyrrolo[3,4-c]pyrrol-2-yl]-(2-[1,2,3]triazol-1-yl-phényl)-méthanone ;
[5-(4,6-diméthyl-pyrimidin-2-yl)-hexahydro-pyrrolo[3,4-c]pyrrol-2-yl]-(2-[1,2,4]triazol-1-yl-phényl)-méthanone ;
[5-(4,6-diméthoxy-pyrimidin-2-yl)-hexahydro-pyrrolo[3,4-c]pyrrol-2-yl]-(3-phényl-pyridin-2-yl)-méthanone ;
[5-(4,6-diméthyl-pyrimidin-2-yl)-hexahydro-pyrrolo[3,4-c]pyrrol-2-yl]-(3-phényl-pyridin-2-yl)-méthanone ;
[5-(6-méthyl-2-propyl-pyrimidin-4-yl)-hexahydro-pyrrolo[3,4-c]pyrrol-2-yl]-(2-[1,2,3]triazol-2-yl-phényl)-méthanone ;
[5-(2-méthyl-pyrimidin-4-yl)-hexahydro-pyrrolo[3,4-c]pyrrol-2-yl]-(2-[1,2,3]triazol-2-yl-phényl)-méthanone ;
[5-(6-méthyl-pyrazin-2-yl)-hexahydro-pyrrolo[3,4-c]pyrrol-2-yl]-(2-[1,2,3]triazol-2-yl-phényl)-méthanone ;
[5-(3,6-diméthyl-pyrazin-2-yl)-hexahydro-pyrrolo[3,4-c]pyrrol-2-yl]-(5-fluoro-2-pyrimidin-2-yl-phényl)-méthanone ;
[5-(3,6-diméthyl-pyrazin-2-yl)-hexahydro-pyrrolo[3,4-c]pyrrol-2-yl]-[2-(2H-[1,2,4]triazol-3-yl)-phényl]-méthanone ;
[5-(2-pyrrolidin-1-yl-6-trifluorométhyl-pyrimidin-4-yl)-hexahydro-pyrrolo[3,4-c]pyrrol-2-yl]-(2-[1,2,3]triazol-2-yl-phényl)-méthanone ;
2-(2,6-diméthylpyrimidin-4-yl)-5-{[5-fluoro-2-(2H-1,2,3-triazol-2-yl)phényl]carbonyl}octahydropyrrolo[3,4-c]pyrrole ;
[5-(4,6-diméthyl-pyrimidin-2-yl)-hexahydro-pyrrolo[3,4-c]pyrrol-2-yl]-(2-nitro-6-[1,2,3]triazol-2-yl-phényl)-méthanone ;
[5-(4,6-diméthyl-pyrimidin-2-yl)-hexahydro-pyrrolo[3,4-c]pyrrol-2-yl]-(2-furan-2-yl-phényl)-méthanone ;
[5-(4,6-diméthyl-pyrimidin-2-yl)-hexahydro-pyrrolo[3,4-c]pyrrol-2-yl]-(2-méthyl-5-phényl-thiazol-4-yl)-méthanone ;
2-[(2,3-diméthylphényl)carbonyl]-5-(4,6-diméthylpyrimidin-2-yl)octahydropyrrolo[3,4-c]pyrrole ;
2-(4,6-diméthylpyrimidin-2-yl)-5-[(3-fluoro-2-méthylphényl)carbonyl]octahydropyrrolo[3,4-c]pyrrole ;
2-(4,6-diméthylpyrimidin-2-yl)-5-{[5-fluoro-2-(trifluorométhyl)phényl]carbonyl}octahydropyrrolo[3,4-c]pyrrole ;
2-[(4-chloro-2-méthoxyphényl)carbonyl]-5-(4,6-diméthylpyrimidin-2-yl)octahydropyrrolo[3,4-c]pyrrole ;
2-[(5-chloro-2-méthylphényl)carbonyl]-5-(4,6-diméthylpyrimidin-2-yl)octahydropyrrolo[3,4-c]pyrrole ;
2-[(2,5-diméthylphényl)carbonyl]-5-(4,6-diméthylpyrimidin-2-yl)octahydropyrrolo[3,4-c]pyrrole ;
2-[(2,6-diméthylphényl)carbonyl]-5-(4,6-diméthylpyrimidin-2-yl)octahydropyrrolo[3,4-c]pyrrole ;
2-(4,6-diméthylpyrimidin-2-yl)-5-[(5-fluoro-2-méthylphényl)carbonyl]octahydropyrrolo[3,4-c]pyrrole ;
2-[(2,4-diméthylphényl)carbonyl]-5-(4,6-diméthylpyrimidin-2-yl)octahydropyrrolo[3,4-c]pyrrole ;
2-[(2,5-diéthoxyphényl)carbonyl]-5-(4,6-diméthylpyrimidin-2-yl)octahydropyrrolo[3,4-c]pyrrole ;
2-[(2,6-diéthoxyphényl)carbonyl]-5-(4,6-diméthylpyrimidin-2-yl)octahydropyrrolo[3,4-c]pyrrole ;
2-[(2-chloro-6-méthylphényl)carbonyl]-5-(4,6-diméthylpyrimidin-2-yl)octahydropyrrolo[3,4-c]pyrrole ;
(5-(4,6-diméthylpyrimidin-2-yl)hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl)(4-fluoro-2-(pyrimidin-2-yl)phényl)méthanone ;
(5-(4,6-diméthylpyrimidin-2-yl)hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl)(3-fluoro-2-iodophényl)méthanone ;
2-(4,6-diméthylpyrimidin-2-yl)-5-{[2-(trifluorométhyl)pyridin-3-yl]carbonyl}octahydropyrrolo[3,4-c]pyrrole ;
(2-bromopyridin-3-yl)(5-(4,6-diméthylpyrimidin-2-yl)hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl)méthanone ;
(5-(4,6-diméthylpyrimidin-2-yl)hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl)(2-(pyrimidin-2-yl)pyridin-3-yl)méthanone ;
(5-(4,6-diméthylpyrimidin-2-yl)hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl)(2-(1-(tétrahydro-2H-pyran-2-yl)-1H-pyrazol-5-yl)pyridin-3-yl)méthanone ;
(2-(1H-pyrazol-5-yl)pyridin-3-yl)(5-(4,6-diméthylpyrimidin-2-yl)hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl)méthanone ;
(2-(2H-1,2,3-triazol-2-yl)pyridin-3-yl)(5-(4,6-diméthylpyrimidin-2-yl)hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl)méthanone ;
(3-fluoro-2-(pyrimidin-2-yl)phényl)(5-(4,5,6-triméthylpyrimidin-2-yl)hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl)méthanone ;
(3-fluoro-2-(2H-1,2,3-triazol-2-yl)phényl)(5-(4,5,6-triméthylpyrimidin-2-yl)hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl)méthanone ;
(5-méthoxy-2-(2H-1,2,3-triazol-2-yl)phényl)(5-(4,5,6-triméthylpyrimidin-2-yl)hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl)méthanone ;
(3-fluoro-2-(2H-1,2,3-triazol-2-yl)phényl)(5-(6-fluoroquinazolin-2-yl)hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl)méthanone ;

(3-fluoro-2-(pyrimidin-2-yl)phényl)(5-(6-fluoroquinazolin-2-yl)hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl)méthanone ;
(5-(6,7-difluoroquinoxalin-2-yl)hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl)(3-fluoro-2-(2H-1,2,3-triazol-2-yl)phényl)méthanone ;
(5-(6,7-difluorbquinoxalin-2-yl)hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl)(5-méthoxy-2-(2H-1,2,3-triazol-2-yl)phényl)méthanone ;
(5-(6,7-difluoroquinoxalin-2-yl)hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl)(2-fluoro-6-(2H-1,2,3-triazol-2-yl)phényl)méthanone ;
(2-bromo-3-fluorophényl)(5-(6-fluoroquinazolin-2-yl)hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl)méthanone ;
(5-(4,6-diméthylpyrimidin-2-yl)hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl)(4-fluoro-2-(5-méthylpyridin-2-yl)phényl)méthanone ;
(2-bromopyridin-3-yl)(5-(4,5,6-triméthylpyrimidin-2-yl)hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl)méthanone ;
(2-(1-(tétrahydro-2H-pyran-2-yl)-1H-pyrazol-5-yl)pyridin-3-yl)(5-(4,5,6-triméthylpyrimidin-2-yl)hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl)méthanone ;
(2-(1H-pyrazol-5-yl)pyridin-3-yl)(5-(4,5,6-triméthylpyrimidin-2-yl)hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl)méthanone ;
6-[5-{[2-fluoro-6-(2H-1,2,3-triazol-2-yl)phényl]carbonyl}hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl]-2-méthylpyrimidin-4(3H)-one ;
2-(2,6-diméthylpyrimidin-4-yl)-5-{[5-(4-fluorophényl)-2-méthyl-1,3-thiazol-4-yl]carbonyl}octahydropyrrolo[3,4-c]pyrrole ;
2-(4,6-diméthylpyrimidin-2-yl)-5-{[5-(4-fluorophényl)-2-méthyl-1,3-thiazol-4-yl]carbonyl}octahydropyrrolo[3,4-c]pyrrole ;
6-[5-{[5-(4-fluorophényl)-2-méthyl-1,3-thiazol-4-yl]carbonyl}hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl]-2-méthylpyrimidin-4(3H)-one ;
6-{5-[(5-fluoro-2-pyrimidin-2-ylphényl)carbonyl]hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl}-2-méthylpyrimidin-4(3H)-one ;
(5-(4,6-diméthylpyrimidin-2-yl)hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl)(4-fluoro-2-(2H-1,2,3-triazol-2-yl)phényl)méthanone ;
(5-(4,6-diméthoxypyrimidin-2-yl)hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl)(2-fluoro-6-(2H-1,2,3-triazol-2-yl)phényl)méthanone ;
(5-(4,6-diméthylpyrimidin-2-yl)hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl)(2-méthyl-6-(2H-1,2,3-triazol-2-yl)phényl)méthanone ;
(5-(4,6-diméthylpyrimidin-2-yl)hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl)(3-méthyl-2-(2H-1,2,3-triazol-2-yl)phényl)méthanone ;
(2-fluoro-6-(2H-1,2,3-triazol-2-yl)phényl)(5-(5-nitropyrimidin-2-yl)hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl)méthanone ;
2-(5-(2-fluoro-6-(2H-1,2,3-triazol-2-yl)benzoyl)hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl)-4-(trifluorométhyl)pyrimidine-5-carboxylate de méthyle ;
acide 2-(5-(2-fluoro-6-(2H-1,2,3-triazol-2-yl)benzoyl)hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl)-4-(trifluorométhyl)pyrimidine-5-carboxylique ;
(2-(4H-1,2,4-triazol-4-yl)phényl)(5-(4,6-diméthylpyrimidin-2-yl)hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl)méthanone ;
acide 2-(5-(2-fluoro-6-(2H-1,2,3-triazol-2-yl)benzoyl)hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl)-6-méthylpyrimidine-4-carboxylique ;
(4,5-difluoro-2-(4H-1,2,4-triazol-4-yl)phényl)(5-(4,6-diméthylpyrimidin-2-yl)hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl)méthanone ;
(5-(4,6-diméthylpyrimidin-2-yl)hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl)(3-méthyl-2-(1H-1,2,3-triazol-1-yl)phényl)méthanone ;
2-(5-(2-fluoro-6-(2H-1,2,3-triazol-2-yl)benzoyl)hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl)-N, N,N,6-triméthylpyrimidine-4-carboxamide ;
2-(5-(2-fluoro-6-(2H-1,2,3-triazol-2-yl)benzoyl)hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl)-N,N-diméthyl-4-(trifluorométhyl)pyrimidine-5-carboxamide ;
(5-(4,6-diméthylpyrimidin-2-yl)hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl)(mesityl)méthanone ;
(2,3-difluorophényl)(5-(4,6-diméthylpyrimidin-2-yl)hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl)méthanone ;
(5-(4,6-diméthylpyrimidin-2-yl)hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl)(4-méthoxy-2-(pyrimidin-2-yl)phényl)méthanone ;
(2,3-diméthoxyphényl)(5-(4,6-diméthylpyrimidin-2-yl)hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl)méthanone ;
(5-(4,6-diméthylpyrimidin-2-yl)hexahydropyrrolo[3,4-c]pyrrol-

2(1H)-yl)(2-(trifluorométhoxy)phényl)méthanone ;
[5-(4,6-diméthyl-pyrimidin-2-yl)-hexahydro-pyrrolo[3,4-c]pyrrol-2-yl]-(6-méthyl-2-[1,2,3]triazol-2-yl-pyridin-3-yl)-méthanone ;
(5-(4,6-diméthylpyrimidin-2-yl)hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl)(2-méthoxy-4-méthylphényl)méthanone ;
(5-(4,6-diméthylpyrimidin-2-yl)hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl)(4-méthoxy-2-méthylphényl)méthanone ;
(2,6-difluorophényl)(5-(4,6-diméthylpyrimidin-2-yl)hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl)méthanone ;
2-[5-{[2-fluoro-6-(2H-1,2,3-triazol-2-yl)phényl]carbonyl}hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl]-6-méthylpyrimidine-4-carbonitrile ;
2-[4,6-bis(trifluorométhyl)pyrimidin-2-yl]-5-{[2-fluoro-6-(2H-1,2,3-triazol-2-yl)phényl]carbonyl}octahydropyrrolo[3,4-c]pyrrole ;
2-[5-{[2-fluoro-6-(2H-1,2,3-triazol-2-yl)phényl]carbonyl}hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl]-6-méthylpyrimidin-4-ol ;
(2-fluoro-6-(2H-1,2,3-triazol-2-yl)phényl)(5-(4-(furan-2-yl)-6-méthylpyrimidin-2-yl)hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl)méthanone ;
2-(4,6-diméthylpyrimidin-2-yl)-5-[(3-fluoro-2-pyrimidin-2-ylphényl)carbonyl]octahydropyrrolo[3,4-c]pyrrole ;
2-(4,6-diméthylpyrimidin-2-yl)-5-{[3-fluoro-2-(1H-pyrazol-5-yl)phényl]carbonyl}octahydropyrrolo[3,4-c]pyrrole ;
2-(4,6-diméthylpyrimidin-2-yl)-5-{[3-méthoxy-2-(2H-1,2,3-triazol-2-yl)phényl]carbonyl}octahydropyrrolo[3,4-c]pyrrole ;
2-(4,6-diméthylpyrimidin-2-yl)-5-{[3-méthoxy-2-(1H-1,2,3-triazol-1-yl)phényl]carbonyl}octahydropyrrolo[3,4-c]pyrrole ;
2-(4,6-diméthylpyrimidin-2-yl)-5-{[3-fluoro-2-(1H-1,2,3-triazol-1-yl)phényl]carbonyl}octahydropyrrolo[3,4-c]pyrrole ;
2-(4,6-diméthylpyrimidin-2-yl)-5-{[4-méthoxy-2-(2H-1,2,3-triazol-2-yl)phényl]carbonyl}octahydropyrrolo[3,4-c]pyrrole ;
2-(4,6-diméthylpyrimidin-2-yl)-5-{[4-méthoxy-2-(1H-1,2,3-triazol-2-yl)phényl]carbonyl}octahydropyrrolo[3,4-c]pyrrole ;
2-(5-fluoro-4-méthylpyrimidin-2-yl)-5-{[2-(2H-1,2,3-triazol-2-yl)phényl]carbonyl}octahydropyrrolo[3,4-c]pyrrole ;
2-(2-chloro-5-fluoropyrimidin-4-yl)-5-{[2-(2H-1,2,3-triazol-2-yl)phényl]carbonyl}octahydropyrrolo[3,4-c]pyrrole ;
2-(5-fluoropyrimidin-2-yl)-5-{[2-fluoro-6-(2H-1,2,3-triazol-2-yl)phényl]carbonyl}octahydropyrrolo[3,4-c]pyrrole ;
2-(5-fluoro-4-méthylpyrimidin-2-yl)-5-{[2-fluoro-6-(2H-1,2,3-triazol-2-yl)phényl]carbonyl}octahydropyrrolo[3,4-c]pyrrole ;
2-{[2-fluoro-6-(2H-1,2,3-triazol-2-yl)phényl]carbonyl}-5-(4,5,6-triméthylpyrimidin-2-yl)octahydropyrrolo[3,4-c]pyrrole ;
2-(4,5-diméthylpyrimidin-2-yl)-5-{[2-fluoro-6-(2H-1,2,3-triazol-2-yl)phényl]carbonyl}octahydropyrrolo[3,4-c]pyrrole ;
2-{[2-fluoro-6-(2H-1,2,3-triazol-2-yl)phényl]carbonyl}-5-(4-méthoxy-6-méthylpyrimidin-2-yl)octahydropyrrolo[3,4-c]pyrrole ;
2-(4-éthyl-6-méthylpyrimidin-2-yl)-5-{[2-fluoro-6-(2H-1,2,3-triazol-2-yl)phényl]carbonyl}octahydropyrrolo[3,4-c]pyrrole ;
2-{[2-fluoro-6-(2H-1,2,3-triazol-2-yl)phényl]carbonyl}-5-[4-méthyl-6-(1-méthyléthyl)pyrimidin-2-yl]octahydropyrrolo[3,4-c]pyrrole ;
2-[4-méthyl-6-(1-méthyléthyl)pyrimidin-2-yl]-5-{[2-(2H-1,2,3-triazol-2-yl)phényl]carbonyl}octahydropyrrolo[3,4-c]pyrrole ;
2-{[5-(1-méthyléthyl)-2-(2H-1,2,3-triazol-2-yl)phényl]carbonyl}-5-[4-méthyl-6-(1-méthyléthyl)pyrimidin-2-yl]octahydropyrrolo[3,4-c]pyrrole ;
2-(4-tert-butyl-6-méthylpyrimidin-2-yl)-5-{[2-fluoro-6-(2H-1,2,3-triazol-2-yl)phényl]carbonyl}octahydropyrrolo[3,4-c]pyrrole ;
2-(4-cyclopropyl-6-méthylpyrimidin-2-yl)-5-{[2-fluoro-6-(2H-1,2,3-triazol-2-yl)phényl]carbonyl}octahydropyrrolo[3,4-c]pyrrole ;
2-{[2-fluoro-6-(2H-1,2,3-triazol-2-yl)phényl]carbonyl}-5-(4-méthyl-1,3,5-triazin-2-yl)octahydropyrrolo[3,4-c]pyrrole ;
2-{[2-fluoro-6-(2H-1,2,3-triazol-2-yl)phényl]carbonyl}-5-(4-méthyl-6-morpholin-4-ylpyrimidin-2-yl)octahydropyrrolo[3,4-c]pyrrole ;
2-{[2-(4H-1,2,4-triazol-3-yl)phényl]carbonyl}-5-(4,5,6-triméthylpyrimidin-2-yl)octahydropyrrolo[3,4-c]pyrrole ;
2-(4,6-diméthylpyrimidin-2-yl)-5-{[2-(3-méthyl-1,2,4-oxadiazol-5-yl)phényl]carbonyl}octahydropyrrolo[3,4-

c]pyrrole ;
2-(4,6-diméthylpyrimidin-2-yl)-5-{[2-(1-méthyl-1H-1,2,4-triazol-5-yl)phényl]carbonyl}octahydropyrrolo[3,4-c]pyrrole ;
2-(4,6-diméthylpyrimidin-2-yl)-5-{[2-(1-méthyl-1H-1,2,4-triazol-3-yl)phényl]carbonyl}octahydropyrrolo[3,4-c]pyrrole ;
2-{[2-(3-méthyl-1,2,4-oxadiazol-5-yl)phényl]carbonyl}-5-(4,5,6-triméthylpyrimidin-2-yl)octahydropyrrolo[3,4-c]pyrrole ;
2-(5-fluoro-4-méthylpyrimidin-2-yl)-5-{[2-(3-méthyl-1,2,4-oxadiazol-5-yl)phényl]carbonyl}octahydropyrrolo[3,4-c]pyrrole ;
2-{[2-(1-méthyl-1H-1,2,4-triazol-3-yl)phényl]carbonyl}-5-(4,5,6-triméthylpyrimidin-2-yl)octahydropyrrolo[3,4-c]pyrrole ;
2-(5-fluoro-4-méthylpyrimidin-2-yl)-5-{[2-(1-méthyl-1H-1,2,4-triazol-3-yl)phényl]carbonyl}octahydropyrrolo[3,4-c]pyrrole ;
2-[5-{[2-fluoro-6-(2H-1,2,3-triazol-2-yl)phényl]carbonyl}hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl]-4-méthyl-6,7-dihydro-5H-cyclopenta[d]pyrimidine ;
2-(4,6-diméthylpyrimidin-2-yl)-5-{[3-fluoro-2-(3-méthyl-1,2,4-oxadiazol-5-yl)phényl]carbonyl}octahydropyrrolo[3,4-c]pyrrole ;
2-(4,6-diméthylpyrimidin-2-yl)-5-{[2-fluoro-6-(3-méthyl-1,2,4-oxadiazol-5-yl)phényl]carbonyl}octahydropyrrolo[3,4-c]pyrrole ;
2-(5-chloro-4-méthylpyrimidin-2-yl)-5-{[2-fluoro-6-(2H-1,2,3-triazol-2-yl)phényl]carbonyl}octahydropyrrolo[3,4-c]pyrrole ;
2-(5-chloro-4,6-diméthylpyrimidin-2-yl)-5-{[2-fluoro-6-(2H-1,2,3-triazol-2-yl)phényl]carbonyl}octahydropyrrolo[3,4-c]pyrrole ;
2-(5-chloro-4,6-diméthylpyrimidin-2-yl)-5-{[2-(3-méthyl-1,2,4-oxadiazol-5-yl)phényl]carbonyl}octahydropyrrolo[3,4-c]pyrrole ;
4-méthyl-2-[5-{[2-(3-méthyl-1,2,4-oxadiazol-5-yl)phényl]carbonyl}hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl]-6,7-dihydro-5H-cyclopenta[d]pyrimidine ;
2-(5-chloro-4,6-diméthylpyrimidin-2-yl)-5-{[2-(1-méthyl-1H-1,2,4-triazol-3-yl)phényl]carbonyl}octahydropyrrolo[3,4-c]pyrrole ;
2-(5-chloro-4-méthylpyrimidin-2-yl)-5-{[2-(1-méthyl-1H-1,2,4-triazol-3-yl)phényl]carbonyl}octahydropyrrolo[3,4-c]pyrrole ;
2-(5-éthyl-4,6-diméthylpyrimidin-2-yl)-5-{[2-(1-méthyl-1H-1,2,4-triazol-3-yl)phényl]carbonyl}octahydropyrrolo[3,4-c]pyrrole ;
2-{[3-(2H-1,2,3-triazol-2-yl)pyridin-2-yl]carbonyl}-5-(4,5,6-triméthylpyrimidin-2-yl)octahydropyrrolo[3,4-c]pyrrole ;
2-(5-chloro-4,6-diméthylpyrimidin-2-yl)-5-{[3-(2H-1,2,3-triazol-2-yl)pyridin-2-yl]carbonyl}octahydropyrrolo[3,4-c]pyrrole ;
2-(5-fluoro-4,6-diméthylpyrimidin-2-yl)-5-{[3-(2H-1,2,3-triazol-2-yl)pyridin-2-yl]carbonyl}octahydropyrrolo[3,4-c]pyrrole ;
2-(4,6-diméthylpyrimidin-2-yl)-5-(9H-fluorén-4-ylcarbonyl)octahydropyrrolo[3,4-c]pyrrole ;
[5-(4,6-diméthyl-pyrimidin-2-yl)-hexahydro-pyrrolo[3,4-c]pyrrol-2-yl]-(5-[1,2,3]triazol-2-yl-benzo[1,3]dioxol-4-yl)-méthanone ;
[5-(4,6-diméthyl-pyrimidin-2-yl)-hexahydro-pyrrolo[3,4-c]pyrrol-2-yl]-(8-[1,2,3]triazol-2-yl-naphtalén-1-yl)-méthanone ;
[5-(4,6-diméthyl-pyrimidin-2-yl)-hexahydro-pyrrolo[3,4-c]pyrrol-2-yl]-(4-[1,2,3]triazol-1-yl-pyridin-3-yl)-méthanone ;
(5-tert-butyl-2-méthoxy-phényl)-[5-(4,6-diméthyl-pyrimidin-2-yl)-hexahydro-pyrrolo[3,4-c]pyrrol-2-yl]-méthanone ;
[5-(4,6-diméthyl-pyrimidin-2-yl)-hexahydro-pyrrolo[3,4-c]pyrrol-2-yl]-(1-[1,2,3]triazol-2-yl-naphtalén-2-yl)-méthanone ;
[5-(4,6-diméthyl-pyrimidin-2-yl)-hexahydro-pyrrolo[3,4-c]pyrrol-2-yl]-(3-[1,2,3]triazol-2-yl-pyridin-2-yl)-méthanone ;
(2-bromo-4,5-diméthoxy-phényl)-[5-(4,6-diméthyl-pyrimidin-2-yl)-hexahydro-pyrrolo[3,4-c]pyrrol-2-yl]-méthanone ;
(3,4-dihydro-2H-benzo[b][1,4]dioxépin-6-yl)-[5-(4,6-diméthyl-pyrimidin-2-yl)-hexahydro-pyrrolo[3,4-c]pyrrol-2-yl]-méthanone ;
(5-(4,6-diméthylpyrimidin-2-yl)hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl)(4-fluoro-2-(6-méthylpyridin-2-yl)phényl)méthanone ;

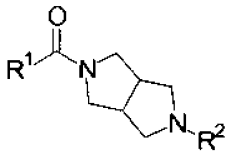
[5-(4,6-diméthyl-pyrimidin-2-yl)-hexahydro-pyrrolo[3,4-c]pyrrol-2-yl]-(6-méthyl-2-[1,2,3]triazol-1-yl-pyridin-3-yl)-méthanone ;
(1-bromo-naphtalén-2-yl)-[5-(4,6-diméthyl-pyrimidin-2-yl)-hexahydro-pyrrolo[3,4-c]pyrrol-2-yl]-méthanone ;
[5-(4,6-diméthyl-pyrimidin-2-yl)-hexahydro-pyrrolo[3,4-c]pyrrol-2-yl]-(3-méthoxy-naphtalén-2-yl)-méthanone ;
[5-(4,6-diméthyl-pyrimidin-2-yl)-hexahydro-pyrrolo[3,4-c]pyrrol-2-yl]-(8-[1,2,3]triazol-2-yl-naphtalén-1-yl)-méthanone ;
[5-(4,6-diméthyl-pyrimidin-2-yl)-hexahydro-pyrrolo[3,4-c]pyrrol-2-yl]-(1-méthoxy-naphtalén-2-yl)-méthanone ;
(4,5-diméthoxy-2-[1,2,3]triazol-1-yl-phényl)-[5-(4,6-diméthyl-pyrimidin-2-yl)-hexahydro-pyrrolo[3,4-c]pyrrol-2-yl]-méthanone ;
(4,5-diméthoxy-2-[1,2,3]triazol-2-yl-phényl)-[5-(4,6-diméthyl-pyrimidin-2-yl)-hexahydro-pyrrolo[3,4-c]pyrrol-2-yl]-méthanone ;
(5-(4,6-diméthylpyrimidin-2-yl)hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl)(4-fluoro-2-(4-méthylpyridin-2-yl)phényl)méthanone ;
(5-(4,6-diméthylpyrimidin-2-yl)hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl)(3-propoxypyridin-2-yl)méthanone ;
(3-propoxypyridin-2-yl)(5-(5-(trifluorométhyl)pyrimidin-2-yl)hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl)méthanone ;
(5-(4,6-diméthylpyrimidin-2-yl)hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl)(4-fluoro-2-(3-fluoropyridin-2-yl)phényl)méthanone ;
(3-propoxypyridin-2-yl)(5-(quinoxalin-2-yl)hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl)méthanone ;
2-(5-([1,1'-biphényl]-2-ylsulfonyl)hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl)quinoxaline ;
2-[(2,6-diméthoxyphényl)carbonyl]-5-[5-(trifluorométhyl)pyridin-2-yl]octahydropyrrolo[3,4-c]pyrrole ;
(2,6-diméthoxyphényl)(5-(5-(trifluorométhyl)pyrimidin-2-yl)hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl)méthanone ;
(2,6-diméthoxyphényl)(5-(4,6-diméthylpyrimidin-2-yl)hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl)méthanone ;
(5-(4,6-diméthylpyrimidin-2-yl)hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl)(3-méthylfuran-2-yl)méthanone ;
2-[(3-méthylfuran-2-yl)carbonyl]-5-[5-(trifluorométhyl)pyridin-2-yl]octahydropyrrolo[3,4-c]pyrrole ;
(3-méthylfuran-2-yl)(5-(5-(trifluorométhyl)pyrimidin-2-yl)hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl)méthanone ;
(3-méthylfuran-2-yl)(5-(quinoxalin-2-yl)hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl)méthanone ;
2-([1,1'-biphényl]-2-ylsulfonyl)-5-(5-(trifluorométhyl)pyridin-2-yl)octahydropyrrolo[3,4-c]pyrrole ;
2-([1,1'-biphényl]-2-ylsulfonyl)-5-(5-(trifluorométhyl)pyrimidin-2-yl)octahydropyrrolo[3,4-c]pyrrole ;
2-([1,1'-biphényl]-2-ylsulfonyl)-5-(4,6-diméthylpyrimidin-2-yl)octahydropyrrolo[3,4-c]pyrrole ;
2-(4,6-diméthylpyrimidin-2-yl)-5-((2-méthoxyphényl)sulfonyl)octahydropyrrolo[3,4-c]pyrrole ;
2-((2-méthoxyphényl)sulfonyl)-5-(5-(trifluorométhyl)pyrimidin-2-yl)octahydropyrrolo[3,4-c]pyrrole ;
2-((2-méthoxyphényl)sulfonyl)-5-(5-(trifluorométhyl)pyridin-2-yl)octahydropyrrolo[3,4-c]pyrrole ;
2-(5-((2-méthoxyphényl)sulfonyl)hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl)quinoxaline ;
(3,6'-diméthyl-[2,3'-bipyridin]-2'-yl)(5-(quinoxalin-2-yl)hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl)méthanone ;
(3,6'-diméthyl-[2,3'-bipyridin]-2'-yl)(5-(5-(trifluorométhyl)pyrimidin-2-yl)hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl)méthanone ;
(3,6'-diméthyl-[2,3'-bipyridin]-2'-yl)(5-(5-(trifluorométhyl)pyridin-2-yl)hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl)méthanone ;
(5-(4,6-diméthylpyrimidin-2-yl)hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl)(4-fluoro-2-(pyridin-2-yl)phényl)méthanone ;
(5-(4,6-diméthylpyrimidin-2-yl)hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl)(3-fluoro-2-(pyridin-2-yl)phényl)méthanone ;
[2,3'-bipyridin]-2'-yl-(5-(4,6-diméthylpyrimidin-2-yl)hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl)méthanone ;
(5-(4,6-diméthylpyrimidin-2-yl)hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl)(4-fluoro-2-(oxazol-2-yl)phényl)méthanone ;
(5-(4,6-diméthylpyrimidin-2-yl)hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl)(3-fluoro-2-(6-méthylpyridin-2-yl)phényl)méthanone ;
(5-(4,6-diméthylpyrimidin-2-yl)hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl)(3-fluoro-2-(3-méthylpyridin-2-yl)phényl)méthanone ;
(2-(3-chloropyridin-2-yl)-3-fluorophényl)(5-(4,6-diméthylpyrimidin-2-yl)hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl)méthanone ;
(5-(4,6-diméthylpyrimidin-2-yl)hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl)(3-fluoro-2-(4-méthylpyridin-2-yl)phényl)méthanone ;
(5-(4,6-diméthylpyrimidin-2-yl)hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl)(3-fluoro-2-(5-méthylpyridin-2-yl)phényl)méthanone ;
(5-(4,6-diméthylpyrimidin-2-yl)hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl)(3-fluoro-2-(3-fluoropyridin-2-

yl)phényl)méthanone ;
(5-(4,6-diméthylpyrimidin-2-yl)hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl)(3-fluoro-2-(oxazol-2-yl)phényl)méthanone ;
2-(5-fluoro-4-méthylpyrimidin-2-yl)-5-{[4-méthoxy-2-(2H-1,2,3-triazol-2-yl)phényl]carbonyl}octahydropyrrolo[3,4-c]pyrrole ;
2-(5-chloro-4-méthylpyrimidin-2-yl)-5-{[4-méthoxy-2-(2H-1,2,3-triazol-2-yl)phényl]carbonyl}octahydropyrrolo[3,4-c]pyrrole ;
2-(5-fluoro-4,6-diméthylpyrimidin-2-yl)-5-{[4-méthoxy-2-(2H-1,2,3-triazol-2-yl)phényl]carbonyl}octahydropyrrolo[3,4-c]pyrrole ;
2-(4,5-diméthylpyrimidin-2-yl)-5-{[4-méthoxy-2-(2H-1,2,3-triazol-2-yl)phényl]carbonyl}octahydropyrrolo[3,4-c]pyrrole ;
2-[(3-propoxypyridin-2-yl)carbonyl]-5-[5-(trifluorométhyl)pyridin-2-yl]octahydropyrrolo[3,4-c]pyrrole ;
2-{4,6-bis[(2H3)méthyl](2H)pyrimidin-2-yl}-5-{[2-fluoro-6-(2H-1,2,3-triazol-2-yl)phényl]carbonyl}octahydropyrrolo[3,4-c]pyrrole ;
2-{4,6-bis[(2H3)méthyl](2H)pyrimidin-2-yl}-5-{[3-fluoro-2-(3-méthyl-1,2,4-oxadiazol-5-yl)phényl]carbonyl}octahydropyrrolo[3,4-c]pyrrole ;
2-{4,6-bis[(2H3)méthyl](2H)pyrimidin-2-yl}-5-{[4-méthoxy-2-(2H-1,2,3-triazol-2-yl)phényl]carbonyl}octahydropyrrolo[3,4-c]pyrrole ;
2-(5-éthyl-4,6-diméthylpyrimidin-2-yl)-5-{[3-(2H-1,2,3-triazol-2-yl)pyridin-2-yl]carbonyl}octahydropyrrolo[3,4-c]pyrrole ;
2-(4,6-diméthylpyrimidin-2-yl)-5-{[3-(3-méthyl-1,2,4-oxadiazol-5-yl)pyridin-2-yl]carbonyl}octahydropyrrolo[3,4-c]pyrrole ;
(5-(6,7-difluoroquinoxalin-2-yl)hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl)(3-fluoro-2-(pyrimidin-2-yl)phényl)méthanone ;
(5-(6,7-difluoroquinoxalin-2-yl)hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl)(3-fluoro-2-(pyrimidin-2-yl)phényl)méthanone ;
(5-(6,7-difluoroquinoxalin-2-yl)hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl)(4-méthoxy-2-(2H-1,2,3-triazol-2-yl)phényl)méthanone ;
(5-(6-(diméthylamino)pyrimidin-4-yl)hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl)(4-méthoxy-2-(2H-1,2,3-triazol-2-yl)phényl)méthanone ;
(5-(6-(diméthylamino)-2-méthylpyrimidin-4-yl)hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl)(4-méthoxy-2-(2H-1,2,3-triazol-2-yl)phényl)méthanone ;
(5-(6-(diméthylamino)-2-méthylpyrimidin-4-yl)hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl)(3-fluoro-2-(pyrimidin-2-yl)phényl)méthanone ;
(5-(6-(diméthylamino)pyrimidin-4-yl)hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl)(3-fluoro-2-(pyrimidin-2-yl)phényl)méthanone ;
(3-fluoro-2-(pyrimidin-2-yl)phényl)(5-(5-fluoro-4,6-diméthylpyrimidin-2-yl)hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl)méthanone ;
(5-(5-chloro-4,6-diméthylpyrimidin-2-yl)hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl)(3-fluoro-2-(pyrimidin-2-yl)phényl)méthanone ;
(5-(5-chloro-4-méthylpyrimidin-2-yl)hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl)(3-fluoro-2-(pyrimidin-2-yl)phényl)méthanone ;
(3-fluoro-2-(pyrimidin-2-yl)phényl)(5-(5-fluoro-4-méthylpyrimidin-2-yl)hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl)méthanone ;
(5-(4,5-diméthylpyrimidin-2-yl)hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl)(3-fluoro-2-(pyrimidin-2-yl)phényl)méthanone ;
(5-(4,6-diméthylpyrimidin-2-yl)hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl)(5-fluoro-2-(6-méthylpyridin-2-yl)phényl)méthanone ;
(5-(4,6-diméthylpyrimidin-2-yl)hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl)(5-fluoro-2-(4-méthylpyridin-2-yl)phényl)méthanone ;
(5-(4,6-diméthylpyrimidin-2-yl)hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl)(5-fluoro-2-(5-méthylpyridin-2-yl)phényl)méthanone ;
(5-(4,6-diméthylpyrimidin-2-yl)hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl)(5-fluoro-2-(3-fluoropyridin-2-yl)phényl)méthanone ;
(5-(4,6-diméthylpyrimidin-2-yl)hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl)(5-fluoro-2-(pyridin-2-yl)phényl)méthanone ;
(5-(4,6-diméthylpyrimidin-2-yl)hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl)(4-fluoro-2-(oxazol-2-yl)phényl)méthanone ;

(5-(4,6-diméthylpyrimidin-2-yl)hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl)(6-fluoro-2-(6-méthylpyridin-2-yl)phényl)méthanone ;
(5-(4,6-diméthylpyrimidin-2-yl)hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl)(6-fluoro-2-(4-méthylpyridin-2-yl)phényl)méthanone ;
(5-(4,6-diméthylpyrimidin-2-yl)hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl)(6-fluoro-2-(5-méthylpyridin-2-yl)phényl)méthanone ;
(5-(4,6-diméthylpyrimidin-2-yl)hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl)(6-fluoro-2-(3-fluoropyridin-2-yl)phényl)méthanone ;
(5-(4,6-diméthylpyrimidin-2-yl)hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl)(6-fluoro-2-(pyridin-2-yl)phényl)méthanone ;
(5-(4,6-diméthylpyrimidin-2-yl)hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl)(6-fluoro-2-(oxazol-2-yl)phényl)méthanone ;
(3,6'-diméthyl-[2,3'-bipyridin]-2'-yl)(5-(quinoxalin-2-yl)hexahydropyrrolo[3,4-c]pyrrol-2(1H)-yl)méthanone ; et
[5-(4,6-diméthyl-pyrimidin-2-yl)-hexahydro-pyrrolo[3,4-c]pyrrol-2-yl]-(2-fluoro-6-[1,2,3]triazol-2-yl-phényl)-méthanone·HCl·1.65H2O.

35. Composition pharmaceutique pour traiter une maladie, un trouble ou une affection médicale médiée par l'activité orexine comprenant :

(a) une quantité efficace d'au moins une entité chimique choisie parmi les composés de formule (I) :



Formule (I)

dans laquelle :

R^1 est un membre choisi dans le groupe constitué de :

A) phényle substitué ou non substitué par un ou deux chaînons R^a et substitué en position *ortho* par R^b ;
R^a est indépendamment choisi dans le groupe constitué de : -H, halogéno, -(alkyle en C_{1-4}), - (alcoxy en C_{1-4}), et -NO_2, où deux chaînons R^a adjacents peuvent former conjointement un cycle aromatique à six chaînons ;
R^b est un membre choisi dans le groupe constitué de :

a) halogéne, -(alcoxy en C_{1-4}), -(alkyle en C_{1-4}), -CF_3, -OCF_3, ou -CN ;
b) cycle hétéroaryle de 5 chaînons contenant un chaînon d'oxygène ou de soufre ;
c) cycle hétéroaryle de 5 à 6 chaînons contenant un, deux ou trois chaînons d'azote, contenant facultativement un chaînon d'oxygène, substitué ou non substitué par halogéno ou - (alkyle en C_{1-4}) ; et
d) phényle substitué ou non substitué par halogéno, -CH_3 ou -CF_3 ;

B) pyridine substituée ou non substituée par un ou deux R^c chaînons et substituée par R^d, où R^d est en position adjacente au point de liaison par R^1 ;
R^c est alkyle en C_{1-4};
R^d est un membre choisi dans le groupe constitué de :

a) cycle hétéroaryle de 5 à 6 chaînons choisi dans le groupe constitué de : 1H-1,2,3-triazol-1-yle, 2H-1,2,3-triazol-2-yle, 1H-pyrazol-5-yle, 3-méthyl-1,2,4-oxadiazol-5-yle, pyridinyle, 3-méthyl-pyridin-2-yle ; 1-(tétrahydro-2H-pyran-2-yl)-1H-pyrazol-5-yle), phényle, et pyrimidin-2-yle ; et
b) -CF_3, -Br, et - (alcoxy en C_{1-4}) ;

C) cycle hétéroaryle de 5 chaînons choisi dans le groupe constitué de : 2-méthyl-1,3-thiazol-yle, 1H-pyrazol-5-yle, oxazole, isoxazolyle, thiophén-2-yle, et furan-2-yle, chacun substitué par phényle subs-

titué ou non substitué par -F ; et
D) cycle aryle ou hétéroaryle de 5 à 13 chaînons choisi dans le groupe constitué de : 3-méthylfuran-2-yle, 9H-fluorène, quinoléine, cinnoline ; 3-(1H-pyrrol-1-yl)thiophén-2-yle, 8-[1,2,3]-triazol-2-yl-naphtalén-1-yle, 2,3-dihydro-1,4-benzodioxin-5-yle, 1H-indol-7-yle, 4-fluoronaphtalén-1-yle, et naphtalén-1-yle ;

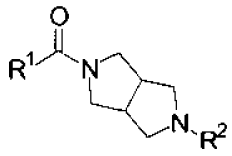
R^2 est un membre choisi dans le groupe constitué de :

A) 6 chaînons cycle hétéroaryle contenant deux chaînons d'azote substitué par un ou plusieurs chaînons indépendamment choisi dans le groupe constitué de : halogéno, -(alkyle en C_{1-4}), $-CD_3$,-D, - (alcoxy en C_{1-4}), cyclopropyle, morpholin-2-yle, $-CO_2$(alkyle en C_{1-4}), $-CO_2H$, $-CH_2OH$,-C(O)N(alkyle en C_{1-4})$_2$, $-CF_3$, -CN, -OH, $-NO_2$,-N (alkyle en C_{1-4})$_2$, phényl, furan-2-yle, thiophén-2-yle, 1H-pyrazol-4-yle, et pyrrolidin-1-yle ;
B) pyridine substitué par one ou deux chaînons indépendamment choisi dans le groupe constitué de halogéno, -(alkyle en C_{1-4}), -(alcoxy en C_{1-4}), et-CF_3 ;
C) cycle hétéroaryle de 9 chaînons choisi dans le groupe constitué de : benzooxazol-2-yle, 2-méthyl-pyrimidin-4(3H)-one, 6-fluoro-1,3-benzothiazole, 1,3-benzothiazole, 6-méthoxy-1,3-benzothiazole, 6-méthyl-1,3-benzothiazole, 6-chloro-benzothiazol-2-yle, et 4-méthyl-6,7-dihydro-5H-cyclopenta[d]pyrimidine ;
D) cycle hétéroaryle de 10 chaînons choisi dans le groupe constitué de : quinoxalin-2-yle, 3-méthyl-quinoxalin-2-yle, 6,7-difluoroquinoxalin-2-yle, 3-(trifluorométhyl)quinoxaline, quinoléine, 4-méthylquinoléine, et 6-fluoroquinazolin-2-yle ; et
E) 4-méthyl-1,3,5-triazin-2-yle ;

et des sels pharmaceutiquement acceptables de composés de formule (I) ; et
(b) au moins un excipient pharmaceutiquement acceptable.

36. Composition pharmaceutique comprenant une quantité efficace d'au moins une entité chimique de la revendication 34, et au moins un excipient pharmaceutiquement acceptable.

37. Au moins une entité chimique choisie parmi des composés de formule (I) :



Formule (I)

dans laquelle :

R^1 est un membre choisi dans le groupe constitué de :

A) phényle substitué ou non substitué par un ou deux chaînons R^a et substitué en position *ortho* par R^b ;
R^a est indépendamment choisi dans le groupe constitué de : -H, halogéno, -(alkyle en C_{1-4}), - (alcoxy en C_{1-4}), et $-NO_2$, où deux chaînons R^a adjacent peuvent former conjointement un cycle aromatique à six chaînons ;
R^b est un membre choisi dans le groupe constitué de :

a) halogéno, -(alcoxy en C_{1-4}) , -(alkyle en C_{1-4}), $-CF_3$, $-OCF_3$, ou -CN ;
b) cycle hétéroaryle de 5 chaînons contenant un chaînon d'oxygène ou de soufre ;
c) cycle hétéroaryle de 5 à 6 chaînons contenant un, deux ou trois chaînons d'azote, contenant facultativement un chaînon d'oxygène, substitué ou non substitué par halogéno ou - (alkyle en C_{1-4}) ; et
d) phényle substitué ou non substitué par halogéno, $-CH_3$, ou $-CF_3$;

B) pyridine substituée ou non substituée par un ou deux chaînons R^c et substitué par R^d, où R^d est en position adjacente au point de liaison par R^1 ;

R^c est alkyle en C_{1-4} ;
R^d est un membre choisi dans le groupe constitué de :

a) cycle hétéroaryle de 5 à 6 chaînons choisi dans le groupe constitué de : 1H-1,2,3-triazol-1-yle, 2H-1,2,3-triazol-2-yle, 1H-pyrazol-5-yle, 3-méthyl-1,2,4-oxadiazol-5-yle, pyridinyle, 3-méthyl-pyridin-2-yle ; 1-(tétrahydro-2H-pyran-2-yl)-1H-pyrazol-5-yl), phényle, et pyrimidin-2-yle ; et
b) $-CF_3$, -Br, et - (alcoxy en C_{1-4}) ;

C) cycle hétéroaryle de 5 chaînons choisi dans le groupe constitué de : 2-méthyl-1,3-thiazol-yle, 1H-pyrazol-5-yle, oxazole, isoxazolyle, thiophén-2-yle, et furan-2-yle, chacun substitué par phényle substitué ou non substitué par -F ; et
D) cycle aryle ou hétéroaryle de 5 à 13 chaînons choisi dans le groupe constitué de : 3-méthylfuran-2-yle, 9H-fluorène, quinoléine, cinnoline ; 3-(1H-pyrrol-1-yl)thiophén-2-yle, 8-[1,2,3]-triazol-2-yl-naphtalén-1-yle, 2,3-dihydro-1,4-benzodioxin-5-yle, 1H-indol-7-yle, 4-fluoronaphtalén-1-yle, et naphtalén-1-yle ;

R^2 est un membre choisi dans le groupe constitué de :

A) cycle hétéroaryle de 6 chaînons contenant deux chaînons d'azote substitués par un ou plusieurs chaînons indépendamment choisis dans le groupe constitué de : halogéno, -(alkyle en C_{1-4}), $-CD_3$,-D, - (alcoxy en C_{1-4}), cyclopropyle, morpholin-2-yle, $-CO_2$(alkyle en C_{1-4}), $-CO_2H$, $-CH_2OH$,-C(O)N(alkyle en C_{1-4})$_2$, $-CF_3$, -CN, -OH, $-NO_2$,-N (alkyle en C_{1-4})$_2$, phényle, furan-2-yle, thiophén-2-yle, 1H-pyrazol-4-yle, et pyrrolidin-1-yle ;
B) pyridine substitué par un ou deux chaînons indépendamment choisis dans le groupe constitué de : halogéno, -(alkyle en C_{1-4}), -(alcoxy en C_{1-4}), et $-CF_3$;
C) cycle hétéroaryle de 9 chaînons choisi dans le groupe constitué de : benzooxazol-2-yle, 2-méthylpyrimidin-4(3H)-one, 6-fluoro-1,3-benzothiazole, 1,3-benzothiazole, 6-méthoxy-1,3-benzothiazole, 6-méthyl-1,3-benzothiazole, 6-chloro-benzothiazol-2-yle, et 4-méthyl-6,7-dihydro-5H-cyclopenta[d]pyrimidine ;
D) cycle hétéroaryle de 10 chaînons choisi dans le groupe constitué de : quinoxalin-2-yle, 3-méthylquinoxalin-2-yle, 6,7-difluoroquinoxalin-2-yle, 3-(trifluorométhyl)quinoxaline, quinoléine, 4-méthylquinoléine, et 6-fluoroquinazolin-2-yle ; et
E) 4-méthyl-1,3,5-triazin-2-yle ;

et des sels pharmaceutiquement acceptables de composés de formule (I), et au moins un excipient pharmaceutiquement acceptable pour utilisation dans un procédé de traitement d'un sujet souffrant de ou diagnostiqué avec une maladie, un trouble ou une affection médicale médié par l'activité du récepteur d'orexine.

38. Au moins une entité chimique et au moins un excipient pharmaceutiquement acceptable pour utilisation selon la revendication 37, où l'entité chimique est la [5-(4,6-diméthyl-pyrimidin-2-yl)-hexahydro-pyrrolo[3,4-c]pyrrol-2-yl]-(2-fluoro-6-[1,2,3]triazol-2-yl-phényl)-méthanone ou un sel pharmaceutiquement acceptable de celle-ci.

39. Au moins une entité chimique et au moins un excipient pharmaceutiquement acceptable pour utilisation selon la revendication 38, où l'entité chimique est le sel de HCl de [5-(4,6-diméthyl-pyrimidin-2-yl)-hexahydro-pyrrolo[3,4-c]pyrrol-2-yl]-(2-fluoro-6-[1,2,3]triazol-2-yl-phényl)-méthanone.

40. Au moins une entité chimique et au moins un excipient pharmaceutiquement acceptable pour utilisation selon la revendication 38, où l'entité chimique est la [5-(4,6-diméthyl-pyrimidin-2-yl)-hexahydro-pyrrolo[3,4-c]pyrrol-2-yl]-(2-fluoro-6-[1,2,3]triazol-2-yl-phényl)-méthanone.

41. Au moins une entité chimique et au moins un excipient pharmaceutiquement acceptable pour utilisation selon la revendication 37, où l'entité chimique est le 2-(4,6-diméthylpyrimidin-2-yl)-5-{[4-méthoxy-2-(2H-1,2,3-triazol-2-yl)phényl]carbonyl}octahydropyrrolo[3,4-c]pyrrole ou un sel pharmaceutiquement acceptable de celui-ci.

42. Au moins une entité chimique et au moins un excipient pharmaceutiquement acceptable pour utilisation selon la revendication 41, où l'entité chimique est le 2-(4,6-diméthylpyrimidin-2-yl)-5-{[4-méthoxy-2-(2H-1,2,3-triazol-2-yl)phényl]carbonyl}octahydropyrrolo[3,4-c]pyrrole.

43. Au moins une entité chimique et au moins un excipient pharmaceutiquement acceptable pour utilisation selon la revendication 37, où la maladie, le trouble ou l'affection médicale est choisi dans le groupe constitué des : troubles

du cycle veille-sommeil, insomnie, syndrome des jambes sans repos, décalage horaire, troubles du sommeil, troubles du sommeil secondaires à des troubles neurologiques, manies, dépressions, maniaco-dépression, schizophrénie, syndromes de douleur, fibromyalgie, douleur neuropathique, catatonie, maladie de Parkinson, syndrome de Tourette, anxiété, délire, démences, surpoids ou obésité et affections liés au surpoids ou à l'obésité, insulinorésistance, diabète de type II, hyperlipidémie, calculs biliaires, angor, hypertension, essoufflement, tachycardie, infertilité, apnée du sommeil, douleurs dorsales et articulaires, varices, arthrose, hypertension, tachycardie, arythmies, angine de poitrine, insuffisance cardiaque aiguë, ulcères, syndrome du côlon irritable, diarrhée et reflux gastro-oesophagien.

44. Au moins une entité chimique et au moins un excipient pharmaceutiquement acceptable pour utilisation selon la revendication 37, où la maladie, le trouble ou l'affection médicale est l'insomnie.

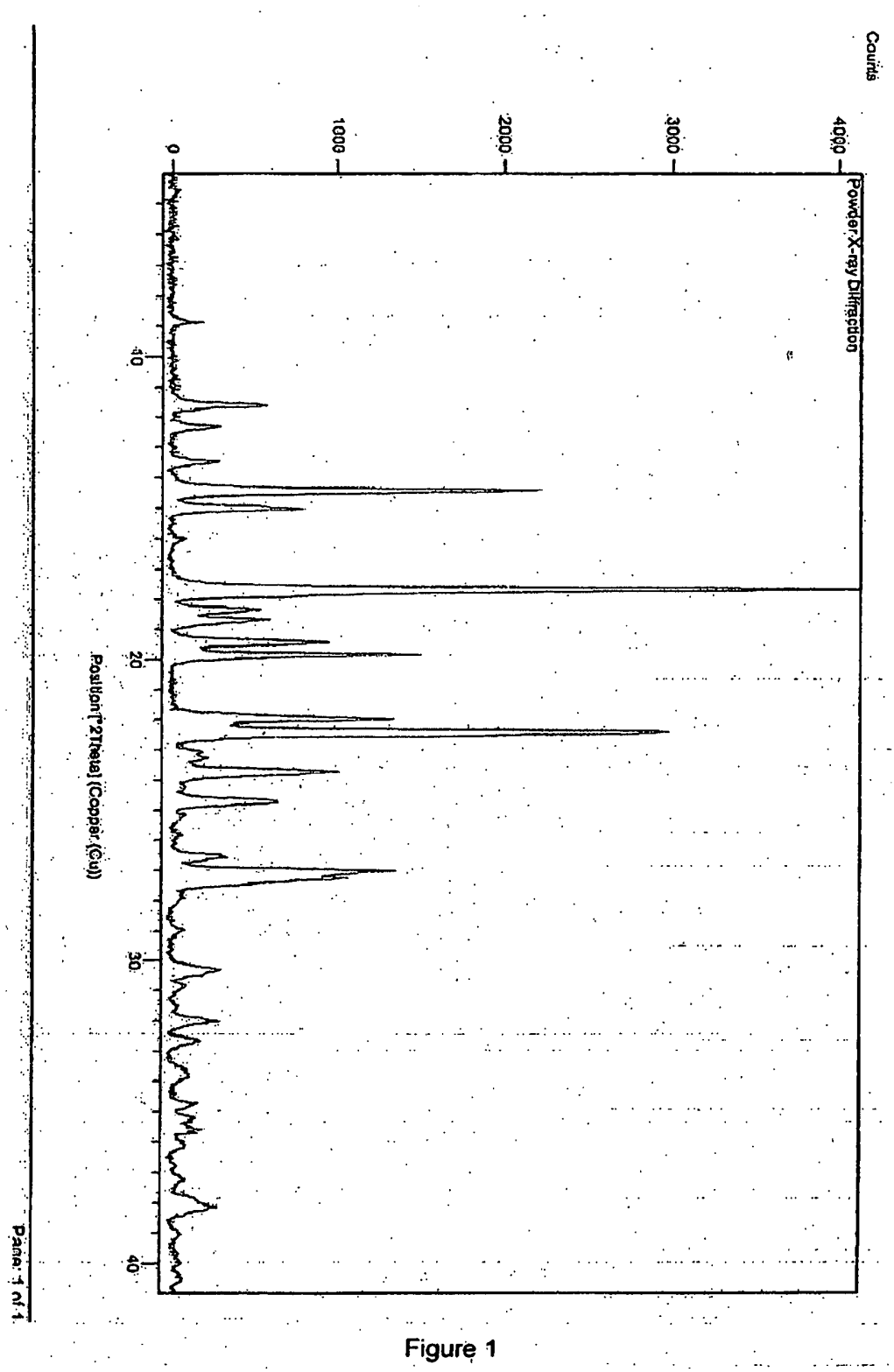

Counts
4000
3000
2000
1000
0
Powder X-ray Diffraction
10
20
30
40
Position [°2Theta] (Copper (Cu))

Figure 1

REFERENCES CITED IN THE DESCRIPTION

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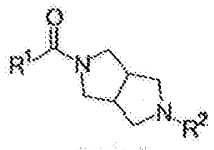
Szabadalmi igénypontok

1. Kémiai entitás, amely egy (I) képletű vegyület,



Formula (I)

ahol

R^1 jelentése a következőkből álló csoport egy tagja:

A) fenil, amely szubsztituálva van vagy nincs szubsztituálva egy vagy két R^a taggal és *orto*-helyzetben szubsztituálva van R^b szubsztituenssel;

R^a jelentései egymástól függetlenül a következőkből álló csoportból vannak kiválasztva: -H, halogén, C_{1-4}alkil, C_{1-4}alkoxi és $-NO_2$, ahol két szomszédos R^a tag együtt egy hat-tagú aromás gyűrűt képezhet;

R^b jelentése a következőkből álló csoport egy tagja:

a) halogén, C_{1-4}alkoxi, C_{1-4}alkil, $-CF_3$, $-OCF_3$ vagy -CN;

b) 5-tagú heteroaril-gyűrű, amely egy oxigén vagy egy kén tagot tartalmaz;

c) 5-6 tagú heteroaril-gyűrű, amely egy, kettő vagy három nitrogén tagot tartalmaz, adott esetben egy oxigén tagot tartalmaz, szubsztituálva van vagy nincs szubsztituálva halogén vagy C_{1-4}alkil szubsztituenssel; és

d) fenil, amely szubsztituálva van vagy nincs szubsztituálva halogén, $-CH_3$ vagy $-CF_3$ szubsztituenssel;

B) piridin, amely szubsztituálva van vagy nincs szubsztituálva egy vagy két R^e taggal és szubsztituálva van R^d szubsztituenssel, ahol R^d az R^1 kapcsolódási pontjával szomszédos helyzetben van;

R^e jelentése C_{1-4}alkil;

R^d jelentése a következőkből álló csoport egy tagja:

a) 5-ö tagú heteroaril-gyűrű, amely a következőkből álló csoportból van kiválasztva: 1H-1,2,3-triazol-1-il, 2H-1,2,3-triazol-2-il, 1H-pirazol-5-il, 3-metil-1,2,4-oxadiazol-5-il, piridinil, 3-metil-piridin-2-il; 1-(tetrahidro-2H-piran-2-il)-1H-pirazol-5-il), fenil és pirimidin-2-il; és

b) $-CF_3$, -Br és C_{1-4}alkoxi;

C) 5-tagú heteroaril-gyűrű, amely a következőkből álló csoportból van kiválasztva: 2-metil-1,3-tiazol-il, 1H-pirazol-5-il, oxazol, izoxazolil, tiofen-2-il és furan-2-il, amelyek mindegyike szubsztituálva van fenilcsoporttal, amely szubsztituálva van vagy nincs szubsztituálva -F atommal; és

D) 5-13 tagú aril- vagy heteroaril-gyűrű, amely a következőkből álló csoportból van kiválasztva: 3-metilfuran-2-il, 9H-fluorén, kinolin, cinnolin; 3-(1H-pirrol-1-il)tiofen-2-il, 8-[1,2,3]-triazol-2-il-naftalen-1-il, 2,3-dihidro-1,4-benzodioxin-5-il, 1H-indol-7-il, 4-fluornaftalen-1-il és naftalen-1-il;

R^2 jelentése a következőkből álló csoport egy tagja:

A) 6-tagú heteroaril-gyűrű, amely két nitrogén tagot tartalmaz, szubsztituálva van a következőkből álló csoportból egymástól függetlenül kiválasztott egy vagy több taggal: halogén, C_{1-4}alkil, $-CD_3$, -D, C_{1-4}alkoxi, ciklopropil, morfolin-2-il, $-CO_2C_{1-4}$alkil, $-CO_2H$, $-CH_2OH$, $-C(O)N(C_{1-4}alkil)_2$, $-CF_3$, -CN, -OH, $-NO_2$, $-N(C_{1-4}alkil)_2$, fenil, furan-2-il, tiofen-2-il, 1H-pirazol-4-il és pirrolidin-1-il;

B) piridin, amely szubsztituálva van a következőkből álló csoportból egymástól függetlenül kiválasztott egy vagy több taggal: halogén, C_{1-4}alkil, C_{1-4}alkoxi és $-CF_3$;

C) 9-tagú heteroaril-gyűrű, amely a következőkből álló csoportból van kiválasztva: benzooxazol-2-il, 6-fluor-1,3-benzotiazol, 1,3-benzotiazol, 6-metoxi-1,3-benzotiazol, 6-metil-1,3-benzotiazol, 6-klór-benzotiazol-2-il és 4-metil-6,7-dihidro-5H-ciklopenta[d]pirimidin;

D) 10-tagú heteroaril-gyűrű, amely a következőkből álló csoportból van kiválasztva: kinoxalin-2-il, 3-metilkinoxalin-2-il, 6,7-difluorkinoxalin-2-il, 3-(trifluormetil)kinoxalin, kinolin, 4-metilkinolin és 6-fluorkinazolin-2-il; és

E) 4-metil-1,3,5-triazin-2-il vagy 2-metilpirimidin-4(3H)-on;

és az (I) képletű vegyületek gyógyszerészetileg elfogadható sói.

2. Az 1. igénypont szerinti kémiai entitás, amely kémiai entitás az [5-(4,6-dimetilpirimidin-2-il)-hexahidropirrolo[3,4-c]pirrol-2-il]-(2-fluor-6-[1,2,3]triazol-2-il-fenil)-metanon vagy ennek gyógyszerészetileg elfogadható sója.

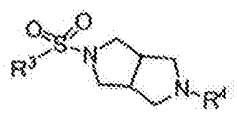
3. A 2. igénypont szerinti kémiai entitás, amely kémiai entitás az [5-(4,6-dimetilpirimidin-2-il)-hexahidropirrolo[3,4-c]pirrol-2-il]-(2-fluor-6-[1,2,3]triazol-2-il-fenil)-metanon HCl sója.

4. A 2. igénypont szerinti kémiai entitás, amely kémiai entitás az [5-(4,6-dimetilpirimidin-2-il)-hexahidropirrolo[3,4-c]pirrol-2-il]-(2-fluor-6-[1,2,3]triazol-2-il-fenil)-metanon.

5. Az 1. igénypont szerinti kémiai entitás, amely kémiai entitás az 2-(4,6-dimetilpirimidin-2-il)-5-{[4-metoxi-2-(2H-1,2,3-triazol-2-il)fenil]karbonil}oktahidropirrolo[3,4-c]pirrol vagy ennek gyógyszerészetileg elfogadható sója.

6. Az 5. igénypont szerinti kémiai entitás, amely kémiai entitás a 2-(4,6-dimetilpirimidin-2-il)-5-{[4-metoxi-2-(2H-1,2,3-triazol-2-il)fenil]karbonil}oktahidropirrolo[3,4-c]pirrol.

7. Kémiai entitás, amely (II) képletű vegyületek közül van kiválasztva,



(II)

ahol

R^3 jelentése fenil, amely szubsztituálva van vagy nincs szubsztituálva egy, a következőkből álló csoportból egymástól függetlenül kiválasztott taggal: C_{1-4}alkoxi és fenil; és

R^4 jelentése a következőkből álló csoport egy tagja: (5-trifluormetil)-piridin-2-il, (5-trifluormetil)--pirimidin-2-il, 4,6-dimetilpirimidin-2-il és kinoxalin-2-il;

és a (II) képletű vegyületek gyógyszerészetileg elfogadható sói.

8. Az 1. igénypontban meghatározott kémiai entitás, ahol R^1 jelentése fenil, ahol R^a jelentése egy, a következőkből álló csoportból egymástól függetlenül kiválasztott tag: -F, -I, -Cl, $-OCH_3$, $-OCH_2CH_3$, $-CH_3$, $-CH(CH_3)_2$, $-C(CH_3)_3$ és $-NO_2$.

9. Az 1. igénypontban meghatározott kémiai entitás, ahol R^1 jelentése fenil, ahol R^b jelentése a következőkből álló csoport egy tagja: -Br, -F, -I, C_{1-4}alkil, $-OCH_3$, $-OCH_2CH_3$, -CN, $-CF_3$ és $-OCF_3$.

10. Az 1. igénypontban meghatározott kémiai entitás, ahol R^1 jelentése fenil, ahol R^a jelentése a következőkből álló csoportból van kiválasztva: -H, -F, -Cl, $-CH_3$, $-C(CH_3)_3$, $-OCH_3$ és $-OCH_2CH_3$; és

R^b jelentése a következőkből álló csoportból van kiválasztva: -Br, -F, -I, C_{1-4}alkil, $-OCH_3$, $-OCH_2CH_3$, -CN, $-CF_3$ és $-OCF_3$.

11. Az 1. igénypontban meghatározott kémiai entitás, ahol R^1 jelentése fenil, ahol R^b jelentése 2-tiofen--2-il vagy 2-furan-2-il.

12. Az 1. igénypontban meghatározott kémiai entitás, ahol R^1 jelentése fenil, ahol R^b jelentése a következőkből álló csoportból van kiválasztva: fenil, 3-klórfenil, 4-fluorfenil, 3-fluorfenil, 4-metilfenil és 4-trifluormetilfenil.

13. Az 1. igénypontban meghatározott kémiai entitás, ahol R^1 jelentése fenil, ahol R^b jelentése a következőkből álló csoport egy tagja: 1H-pirrol-1-il, 1H-pirazol-1-il, 1H-pirazol-5-il, 1H-imidazol-2-il, 1-metil--1H-imidazol-2-il, 1H-1,2,3-triazol-1-il, 2H-1,2,3-triazol-2-il, 2H-1,2,3-triazol-1-il, 1H-1,2,4-triazol-5-il, 2H--1,2,4-triazol-1-il, 2H-1,2,4-triazol-3-il, 4H-1,2,4-triazol-3-il, 4H-1,2,4-triazol-4-il, 1-metil-1H-1,2,4-triazol-3-il, 1-metil-1H-1,2,4-triazol-5-il és 1-(tetrahidro-2H-piran-2-il)-1H-pirazol-5-il.

14. Az 1. igénypontban meghatározott kémiai entitás, ahol R^1 jelentése fenil, ahol R^b jelentése a következőkből álló csoport egy tagja: piridin-2-il, 3-klórpiridin-2-il, 3-fluorpiridin-2-il, 3-metilpiridin-2-il, 4-metilpiridin-2-il, 5-metilpiridin-2-il, 6-metilpiridin-2-il, 2-piridin-3-il és 2-pirimidin-2-il.

15. Az 1. igénypontban meghatározott kémiai entitás, ahol R^1 jelentése fenil, ahol R^b jelentése a következőkből álló csoport egy tagja: 3-metil-1,2,4-oxadiazol-5-il és oxazol-2-il.

16. Az 1. igénypontban meghatározott kémiai entitás, ahol R^1 jelentése fenil, ahol R^a jelentése halogén, C_{1-4}alkil vagy C_{1-4}alkoxi; és

R^b jelentése triazol vagy pirimidin, amely szubsztituálva van vagy nincs szubsztituálva halogén vagy C_{1-4}alkil szubsztituenssel.

17. Az 1. igénypontban meghatározott kémiai entitás, ahol R^1 jelentése (1-metiletil)-2-(2H-1,2,3-triazol-2-il)fenil, 2-(1H-1,2,3-triazol-1-il)fenil, 2-(2H-1,2,3-triazol-2-il)fenil, 2-fluor-6-(2H-1,2,3-triazol-2-il)fenil, 2-metil-6-(2H-1,2,3-triazol-2-il)fenil, 3-fluor-2-(2H-1,2,3-triazol-2-il)fenil, 3-fluor-2-(1H-1,2,3-triazol-1-il)fenil, 3-metoxi-2-(1H-1,2,3-triazol-1-il)fenil, 3-metoxi-2-(2H-1,2,3-triazol-2-il)fenil, 3-metil-2-(2H-1,2,3-triazol-2-il)fenil, 3-metil-2-(1H-1,2,3-triazol-1-il)fenil, 4-fluor-2-(2H-1,2,3-triazol-2-il)fenil, 4-metoxi-2-(2H-1,2,3-triazol-2-il)fenil, 4-metoxi-2-(1H-1,2,3-triazol-2-il)fenil, 4,5-dimetoxi-2-[1,2,3]triazol-1-il-fenil, 4,5-dimetoxi-2-[1,2,3]triazol-2-il-fenil, 5-[1,2,3]triazol-2-il-benzo[1,3]dioxol-4-il, 5-klór-2-(2H-1,2,3-triazol-2-il)fenil, 5-fluor-2-(2H-1,2,3-triazol-2-il)fenil, 5-jód-2-(2H-1,2,3-triazol-2-il)fenil, 5-metoxi-2-(2H-1,2,3-triazol-2-il)fenil, 5-metil-2-(2H-1,2,3-triazol-2-il)fenil, 1-[1,2,3]triazol-2-il-naftalen-2-il, 2-(1H-1,2,4-triazol-1-il)fenil, 2-(1H-1,2,4-triazol-5-il)fenil, 2-(1-metil-1H-1,2,4-triazol-5-il)fenil, 2-(1-metil-1H-1,2,4-triazol-3-il)fenil, 2-(4H-1,2,4-triazol-3-il)fenil, 2-(4H-1,2,4-triazol-4-il)fenil, 2-(3-metil-1,2,4-oxadiazol-5-il)fenil, 3-fluor-2-(3-metil-1,2,4-oxadiazol-5-il)fenil, 2-fluor-6-(3-metil-1,2,4-oxadiazol-5-il)fenil, 4,5-difluor-2-(4H-1,2,4-triazol-4-il)fenil), 2-fluor-6-pirimidin-2-ilfenil, 2-(pirimidin-2-il)piridin-3-il, 3-fluor-2-pirimidin-2-ilfenil, 4-fluor-2-(pirimidin-2-il)fenil, 4-metoxi-2-(pirimidin-2-il)fenil, 5-fluor-2-pirimidin-2-ilfenil és 5-metil-2-pirimidin-2-ilfenil.

18. Az 1. igénypontban meghatározott kémiai entitás, ahol R^1 jelentése piridin, ahol R^d jelentése a következőkből álló csoport egy tagja: $-CF_3$, -Br és $-OCH_2CH_2CH_3$.

19. Az 1. igénypontban meghatározott kémiai entitás, ahol R^1 jelentése piridin, ahol R^d jelentése a következőkből álló csoport egy tagja: 1H-pirazol-5-il, 2H-1,2,3-triazol-1-il, 2H-1,2,3-triazol-2-il, 4H-1,2,3-triazol-1-il, 1-(tetrahidro-2H-piran-2-il)-1H-pirazol-5-il, 3-metilpiridin-2-il és 3-metil-1,2,4-oxadiazol-5-il .

20. Az 1. igénypontban meghatározott kémiai entitás, ahol R^1 jelentése piridin, ahol R^d jelentése a következőkből álló csoport egy tagja: 1H-pirazol-5-il, 2H-1,2,3-triazol-1-il és 2H-1,2,3-triazol-2-il.

21. Az 1. igénypontban meghatározott kémiai entitás, ahol R^1 jelentése 1-fenil-1H-pirazol-5-il, 3-feniltiofen-2-il, 3-fenilfuran-2-il, 5-fenil-1,3-oxazol-4-il, 5-fenilizoxazol-4-il, 5-(2-fluorfenil)-2-metil-1,3-tiazol-4-il, 2-metil-5-fenil-tiazol-4-il vagy 5-(4-fluorfenil)-2-metil-1,3-tiazol-4-il.

22. Az 1. igénypontban meghatározott kémiai entitás, ahol R^1 jelentése a következőkből álló csoportból van kiválasztva: 3-metilfuran-2-il, 9H-fluorén, kinolin, cinnolin; 3-(1H-pirrol-1-il)tiofen-2-il, 8-[1,2,3]-triazol-2-il-naftalen-1-il, 2,3-dihidro-1,4-benzodioxin-5-il, 1H-indol-7-il, 4-fluornaftalen-1-il és naftalen-1-il; és

R^2 jelentése a következőkből álló csoportból van kiválasztva: 4,6-dimetilpirimidin-2-il, 4-fenil-pirimidin-2-il, kinoxalin és 4-metoxipirimidin-2-il.

23. Az 1. igénypontban meghatározott kémiai entitás, ahol R^2 jelentése pirimidin, amely szubsztituálva van a következőkből álló csoportból egymástól függetlenül kiválasztott egy vagy több taggal: -F, -Cl, -D, $-CD_3$, $-CH_3$, etil, izopropil, propil, terc-butil, $-CF_3$, $-OCH_3$, $-N(CH_3)_2$, -CN, -OH, $-CH_2OH$, $-NO_2$, $-CO_2CH_3$, $-CO_2H$, $-C(O)N(CH_3)_2$, fenil, furan-2-il, tiofen-2-il, 1H-pirazol-4-il, ciklopropil, pirrolidin-1-il és morfolin-4-il.

24. Az 1. igénypontban meghatározott kémiai entitás, ahol R^2 jelentése 4,6-dimetilpirimidin-2-il, 4,5--dimetilpirimidin-2-il, 4,6-dimetoxipirimidin-2-il, 4-fenil-pirimidin-2-il, 4-furan-2-ilpirimidin-2-il, 4-metilpirimidin-2-il, 4-metoxipirimidin-2-il, 4-tiofen-2-ilpirimidin-2-il, N,N,6-trimetil-pirimidin-4-amin, 4-(trifluormetil)pirimidin-2-il, 4,5,6-trimetilpirimidin-2-il, 4-(trifluormetil)pirimidin-5-karboxilát, 4-(trifluormetil)pirimidin-5-karbonsav, 5-nitro-pirimidin-2-il, 6-metilpirimidin-4-karbonsav, N,N-dimetil-4-(trifluormetil)pirimidin-5-karboxamid, N,N,6-trimetilpirimidin-karboxamid, 6-metilpirimidin-4-carbonitril, 4,6--bisz(trifluormetil)pirimidin-2-il, 6-metil-pirimidin-4-ol, 4-(furan-2-il)-6-metilpirimidin-2-il, 5-fluor-4--metilpirimidin-2-il, 5-fluorpirimidin-2-il, 4-metoxi-6-metilpirimidin-2-il, 4-etil-6-metilpirimidin-2-il, 4-izopropil-6-metilpirimidin-2-il, 4-terc-butil-6-metilpirimidin-2-il, 4-ciklopropil-6-metilpirimidin-2-il, 4-metil--6-morfolin-4-ilpirimidin-2-il, 5-klór-4-metilpirimidin-2-il, 5-klór-4,6-dimetilpirimidin-2-il, 5-fluor-4,6--dimetilpirimidin-2-il, 5-trifluormetilpirimidin-2-il, 4,6-bisz[(^{2}H3)metil](^{2}H)pirimidin-2-il és 5-etil-4,6--dimetilpirimidin-2-il.

25. Az 1. igénypontban meghatározott kémiai entitás, ahol R^2 jelentése pirimidin, amely szubsztituálva van a következőkből álló csoportból egymástól függetlenül kiválasztott egy vagy több taggal: -Cl, -F, $-CH_3$, $-CF_3$, $-N(CH_3)_2$, -D és $-CD_3$.

26. Az 1. igénypontban meghatározott kémiai entitás, ahol R^2 jelentése 4,6-dimetilpirimidin-2-il, 4,5--dimetilpirimidin-2-il, 4,6-dimetoxipirimidin-2-il, 4-metilpirimidin-2-il, 4-metoxipirimidin-2-il, N,N,6-trimetil--pirimidin-4-amin, 4-(trifluormetil)pirimidin-2-il, 4,5,6-trimetilpirimidin-2-il, 4,6-bisz(trifluormetil)pirimidin-2--il, 6-metil-pirimidin-4-ol, 5-fluor-4-metilpirimidin-2-il, 5-fluorpirimidin-2-il, 4-metoxi-6-metilpirimidin-2-il, 5-klór-4-metilpirimidin-2-il, 5-klór-4,6-dimetilpirimidin-2-il, 5-fluor-4,6-dimetilpirimidin-2-il, 5-trifluor-metilpirimidin-2-il és 4,6-bisz[(^{2}H3)metil](^{2}H)pirimidin-2-il.

27. Az 1. igénypontban meghatározott kémiai entitás, ahol R^2 jelentése pirazin vagy triazin, amely szubsztituálva van egy vagy több $-CH_3$ szubsztituenssel.

28. Az 1. igénypontban meghatározott kémiai entitás, ahol R^2 jelentése piridin, amely szubsztituálva van a következőkből álló csoportból egymástól függetlenül kiválasztott egy vagy több taggal: -F, $-OCH_3$, $-OCH_2CH_3$, $-CH_3$ és $-CF_3$.

29. Az 1. igénypontban meghatározott kémiai entitás, ahol R^2 jelentése a következőkből álló csoport egy tagja: benzooxazol-2-il, 2-metilpirimidin-4(3H)-on és 4-metil-6,7-dihidro-5H-ciklopenta[d]pirimidin és R^1 jelentése fenil, amely *orto*-helyzetben szubsztituálva van R^b szubsztituenssel, ahol R^b jelentése 2H-1,2,3-triazol--2-il, 2H-1,2,3-triazol-1-il, 3-metil-1,2,4-oxadiazol-5-il vagy 2-pirimidin-2-il.

30. Az 1. igénypontban meghatározott kémiai entitás, ahol R^2 jelentése a következőkből álló csoport egy tagja: kinoxalin-2-il, 3-metilkinoxalin-2-il, 6,7-difluorkinoxalin-2-il, 3-(trifluormetil)kinoxalin, 4-metilkinolin és 6-fluorkinazolin-2-il; és

R^1 jelentése fenil, amely *orto*-helyzetben szubsztituálva van R^b szubsztituenssel, ahol R^b jelentése 2H-1,2,3-triazol-2-il, 2H-1,2,3-triazol-1-il, 3-metil-1,2,4-oxadiazol-5-il vagy 2-pirimidin-2-il.

31. A 7. igénypontban meghatározott kémiai entitás, ahol R^3 jelentése bifenil vagy 2-metoxifenil és R^4 jelentése (5-trifluormetil)-piridin-2-il, (5-trifluormetil)-pirimidin-2-il, 4,6-dimetilpirimidin-2-il vagy kinoxalin-2-il.

32. Az 1. igénypontban meghatározott kémiai entitás, ahol R^1 jelentése a következőkből álló csoport egy tagja: 2-(1H-1,2,3-triazol-1-il)fenil, 2-(2H-1,2,3-triazol-2-il)fenil, 2-fluor-6-(2H-1,2,3-triazol-2-il)fenil, 2-metil-6-(2H-1,2,3-triazol-2-il)fenil, 3-fluor-2-(2H-1,2,3-triazol-2-il)fenil, 3-fluor-2-(1H-1,2,3-triazol-1-il)fenil, 3-metoxi-2-(1H-1,2,3-triazol-1-il)fenil, 3-metoxi-2-(2H-1,2,3-triazol-2-il)fenil, 3-metil-2-(2H-1,2,3-triazol-2-il)fenil, 3-metil-2-(1H-1,2,3-triazol-1-il)fenil, 4-fluor-2-(2H-1,2,3-triazol-2-il)fenil, 4-metoxi-2-(2H-1,2,3-triazol-2-il)fenil, 4-metoxi-2-(1H-1,2,3-triazol-2-il)fenil, 4,5-dimetoxi-2-[1,2,3]triazol-1-il-fenil, 4,5-dimetoxi-2-[1,2,3]triazol-2-il-fenil, 5-klór-2-(2H-1,2,3-triazol-2-il)fenil, 5-fluor-2-(2H-1,2,3-triazol-2-il)fenil, 5-metoxi-2-(2H-1,2,3-triazol-2-il)fenil, 5-metil-2-(2H-1,2,3-triazol-2-il)fenil, 2-(1H-1,2,4-triazol-1-il)fenil, 2-(1H-1,2,4-triazol-5-il)fenil, 2-(1-metil)-1H-1,2,4-triazol-5-il)fenil, 2-(1-metil-1H-1,2,4-triazol-3-il)fenil, 2-(4H-1,2,4-triazol-3-il)fenil, 2-(4H-1,2,4-triazol-4-il)fenil, 2-(3-metil-1,2,4-oxadiazol-5-il)fenil, 3-fluor-2-(3-metil-1,2,4-oxadiazol-5-il)fenil, 2-fluor-6-(3-metil-1,2,4-oxadiazol-5-il)fenil, 4,5-difluor-2-(4H-1,2,4-triazol-4-il)fenil), 2-fluor-6-pirimidin-2-ilfenil, 2-(pirimidin-2-il)piridin-3-il, 3-fluor-2-pirimidin-2-ilfenil, 4-fluor-2-(pirimidin-2-il)fenil, 4-metoxi-2-(pirimidin-2-il)fenil, 5-fluor-2-pirimidin-2-ilfenil és 5-metil-2-pirimidin-2-ilfenil; és

R^2 jelentése a következőkből álló csoport egy tagja: 4,6-dimetilpirimidin-2-il, 4,5-dimetilpirimidin-2-il, 4,6-dimetoxipirimidin-2-il, 4-metilpirimidin-2-il, 4-metoxipirimidin-2-il, N,N,6-trimetil-pirimidin-4-amin, 4-(trifluormetil)pirimidin-2-il, 4,5,6-trimetilpirimidin-2-il, 4,6-bisz(trifluormetil)pirimidin-2-il, 6-metil-pirimidin-4-ol, 5-fluor-4-metilpirimidin-2-il, 5-fluorpirimidin-2-il, 4-metoxi-6-metilpirimidin-2-il, 5-klór-4-metilpirimidin-2-il, 5-klór-4,6-dimetilpirimidin-2-il, 5-fluor-4,6-dimetilpirimidin-2-il, 5-trifluormetilpirimidin-2-il és 4,6-bisz[(^{2}H3)metil](^{2}H)pirimidin-2-il.

33. Az 1. igénypontban meghatározott kémiai entitás, ahol R^1 jelentése a következőkből álló csoport egy tagja: 3-fluor-2-(3-metil-1,2,4-oxadiazol-5-il)fenil, 6-fluor-2-(2H-1,2,3-triazol-2-il)fenil, 4-metoxi-2-(2H-1,2,3-triazol-2-il)fenil és 3-[1,2,3]triazol-2-il-piridin-2-il; és

R^2 jelentése a következőkből álló csoport egy tagja: 4,6-dimetilpirimidin-2-il, 5-fluor-4,6-dimetil-pirimidin-2-il és 5-fluor-4-metilpirimidin-2-il.

34. Kémiai entitás, amely a következőkből álló csoportból van kiválasztva:

4-[5-{[2-Fluor-6-(2H-1,2,3-triazol-2-il)fenil]karbonil}hexahidropirrolo[3,4-c]pirrol-2(1H)-il]-6-metoxi-N,N-dimetilpirimidin-2-amin;

N,N-Dimetil-6-[5-{[2-(2H-1,2,3-triazol-2-il)fenil]karbonil}hexahidropirrolo[3,4-c]pirrol-2(1H)-il]-2--(trifluormetil)pirimidin-4-amin;

6-[5-{[2-Fluor-6-(2H-1,2,3-triazol-2-il)fenil]karbonil}hexahidropirrolo[3,4-c]pirrol-2(1H)-il]-N,N--dimetil-2-(trifluormetil)pirimidin-4-amin;

4-[5-{[5-Fluor-2-(2H-1,2,3-triazol-2-il)fenil]karbonil}hexahidropirrolo[3,4-c]pirrol-2(1H)-il]-6-metoxi--N,N-dimetilpirimidin-2-amin;

4-Metoxi-N,N-dimetil-6-[5-{[2-(2H-1,2,3-triazol-2-il)fenil]karbonil}hexahidropirrolo-[3,4-c]pirrol--2(1H)-il]pirimidin-2-amin;

6-[5-{[4-Fluor-2-(2H-1,2,3-triazol-2-il)fenil]karbonil}hexahidropirrolo[3,4-c]pirrol-2(1H)-il]-N,N--dimetil-2-(trifluormetil)pirimidin-4-amin;

4-[5-{[4-Fluor-2-(2H-1,2,3-triazol-2-il)fenil]karbonil}hexahidropirrolo[3,4-c]pirrol-2(1H)-il]-6-metoxi--N,N-dimetilpirimidin-2-amin;

2-(4,6-Dimetilpirimidin-2-il)-5-{[3-(1H-pirrol-1-il)tiofen-2-il]karbonil}oktahidro-pirrolo[3,4-c]pirrol;

6-[5-{[5-Fluor-2-(2H-1,2,3-triazol-2-il)fenil]karbonil}hexahidropirrolo[3,4-c]pirrol-2(1H)-il]-N,N--dimetil-2-(trifluormetil)pirimidin-4-amin;

2-(4,6-Dimetilpirimidin-2-il)-5-[(1-fenil-1H-pirazol-5-il)karbonil]oktahidropirrolo[3,4-c]pirrol;

8-{[5-(4,6-Dimetilpirimidin-2-il)hexahidropirrolo[3,4-c]pirrol-2(1H)-il]karbonil}-kinolin;

2-(4,6-Dimetilpirimidin-2-il)-5-[(3-feniltiofen-2-il)karbonil]oktahidropirrolo[3,4-c]pirrol;

2-(4,6-Dimetilpirimidin-2-il)-5-[(3-fenilfuran-2-il)karbonil]oktahidropirrolo[3,4-c]pirrol;

2-(4,6-Dimetilpirimidin-2-il)-5-{[2-(1H-1,2,4-triazol-5-il)fenil]karbonil}oktahidro-pirrolo[3,4-c]pirrol;

2-(4,6-Dimetilpirimidin-2-il)-5-{[3-fluor-2-(2H-1,2,3-triazol-2-il)fenil]karbonil}oktahidropirrolo[3,4-c]-pirrol;

2-{5-[(2,4-Dimetoxifenil)karbonil]hexahidropirrolo[3,4-c]pirrol-2(1H)-il}-6-fluor-1,3-benzotiazol;

2-{5-[(2,4-Dimetoxifenil)karbonil]hexahidropirrolo[3,4-c]pirrol-2(1H)-il}-1,3-benzotiazol;

2-[5-{[2-(1H-Pirazol-1-il)fenil]karbonil}hexahidropirrolo[3,4-c]pirrol-2(1H)-il]kinoxalin;

2-{5-[(2-Tiofen-2-ilfenil)karbonil]hexahidropirrolo[3,4-c]pirrol-2(1H)-il}kinoxalin;

2-{5-[(2-Metilnaftalen-1-il)karbonil]hexahidropirrolo[3,4-c]pirrol-2(1H)-il}kinoxalin;

2-{2,3-Dihidro-1,4-benzodioxin-5-ilkarbonil)-5-(4-fenil-pirimidin-2-il)oktahidropirrolo[3,4-c]pirrol;

2-(4-Fenil-pirimidin-2-il)-5-[(2-tiofen-2-ilfenil)karbonil]oktahidro-pirrolo[3,4-c]pirrol;

2-(4-Fenil-pirimidin-2-il)-5-{[2-(1H-pirazol-1-il)fenil]karbonil}oktahidro-pirrolo[3,4-c]pirrol;

2-(4-Fenil-pirimidin-2-il)-5-{[2-(1H-pirrol-1-il)fenil]karbonil}oktahidro-pirrolo[3,4-c]pirrol;

2-[(2-Metilnaftalen-1-il)karbonil]-5-(4-fenil-pirimidin-2-il)oktahidropirrolo[3,4-c]pirrol;

2-(5-Kinoxalin-2-il-hexahidropirrolo[3,4-c]pirrol;-2-karbonil)-benzonitril;

2-[5-{[2-(1H-Pirrol-1-il)fenil]karbonil}hexahidropirrolo[3,4-c]pirrol-2(H)-il]kinoxalin;

2-{5-[(4'-Fluorbifenil-2-il)karbonil]hexahidropirrolo[3,4-c]pirrol-2(1H)-il}kinoxalin;

2-{5-[(3'-Fluorbifenil-2-il)karbonil]hexahidropirrolo[3,4-c]pirrol-2(1H)-il}kinoxalin;

2-{5-[(2-Metilfenil)karbonil]hexahidropirrolo[3,4-c]pirrol-2(1H)-il}kinoxalin;

2-(Bifenil-2-ilkarbonil)-5-(4-furan-2-ilpirimidin-2-il)oktahidropirrolo[3,4-c]pirrol;

2-(4-Metilpirimidin-2-il)-5-[(2-tiofen-2-ilfenil)karbonil]oktahidro-pirrolo[3,4-c]pirrol;

2-{5-[(2-Tiofen-2-ilfenil)karbonil]hexahidropirrolo[3,4-c]pirrol-2(1H)-il)kinolin;

2-(4-Furan-2-ilpirimidin-2-il)-5-[(2-tiofen-2-ilfenil)karbonil]oktahidro-pirrolo[3,4-c]pirrol;

2-{5-[(2-Etilfenil)karbonil]hexahidropirrolo[3,4-c]pirrol-2(1H)-il}kinoxalin;

2-[5-(1H-Indol-7-ilkarbonil)hexahidropirrolo[3,4-c]pirrol-2(1H)-il]kinoxalin;

2-[(2-Tiofen-2-ilfenil)karbonil]-5-(4-tiofen-2-ilpirimidin-2-il)oktahidro-pirrolo[3,4-c]pirrol;

2-(Bifenil-2-ilkarbonil)-5-(4-tiofen-2-ilpirimidin-2-il)oktahidropirrolo[3,4-c]pirrol;

[5-(4,6-Dimetilpirimidin-2-il)hexahidropirrolo[3,4-c]pirrol-2-il]-[2-(1-metil-1H-imidazol-2-il)-fenil]--metanon;

2-[(2-Brómfenil)karbonil]-5-(4-fenil-pirimidin-2-il)oktahidropirrolo[3,4-c]pirrol;

2-{5-[(3'-Klórbifenil-2-il)karbonil]hexahidropirrolo[3,4-c]pirrol-2(1H)-il}kinoxalin;

2-{5-[(2-Brómfenil)karbonil]hexahidropirrolo[3,4-c]pirrol-2(1H)-il}kinoxalin;

2-(4,6-Dimetilpirimidin-2-il)-5-[(2-tiofen-2-ilfenil)karbonil]oktahidro-pirrolo[3,4-c]pirrol;

2-(Bifenil-2-ilkarbonil)-5-(4,6-dimetilpirimidin-2-il)oktahidropirrolo[3,4-c]pirrol;

2-(4-Metoxipirimidin-2-il)-5-[(2-tiofen-2-ilfenil)karbonil]oktahidro-pirrolo[3,4-c]pirrol;

6-Fluor-2-{5-[(2-tiofen-2-ilfenil)karbonil]hexahidropirrolo[3,4-c]pirrol-2(1H)-il}-1,3-benzotiazol;

2-(4,6-Dimetilpirimidin-2-il)-5-[(2-metilnaftalen-1-il)karbonil]oktahidro-pirrolo[3,4-c]pirrol;

2-[(3'-Fluorbifenil-2-il)karbonil]-5-(4-metilpirimidin-2-il)oktahidro-pirrolo[3,4-c]pirrol;

2-(4-Metoxipirimidin-2-il)-5-[(2-metilnaftalen-1-il)karbonil]oktahidro-pirrolo[3,4-c]pirrol;

2-[(2-Metilnaftalen-1-il)karbonil]-5-(4-metilpirimidin-2-il)oktahidro-pirrolo[3,4-c]pirrol;

2-[(3'-Fluorbifenil-2-il)karbonil]-5-(4-metoxipirimidin-2-il)oktahidro-pirrolo[3,4-c]pirrol,

2-(4,6-Dimetilpirimidin-2-il)-5-[(3'-fluorbifenil-2-il)karbonil]oktahidro-pirrolo[3,4-c]pirrol;

[5-(4,6-Dimetilpirimidin-2-il)hexahidropirrolo[3,4-c]pirrol-2-il]-(2-fluor-fenil)-metanon;

2-(4-Metoxipirimidin-2-il)-5-[(4'-metilbifenil-2-il)karbonil]oktahidro-pirrolo[3,4-c]pirrol;

2-[(3'-Klórbifenil-2-il)karbonil]-5-(4-metoxipirimidin-2-il)oktahidro-pirrolo[3,4-c]pirrol;

2-[(2-Etoxinaftalen-1-il)karbonil]-5-(4-metoxipirimidin-2-il)oktahidropirrolo[3,4-c]pirrol;

2-[(4-Fluornaftalen-1-il)karbonil]-5-(4-metoxipirimidin-2-il)oktahidro-pirrolo[3,4-c]pirrol;

2-(4-Metoxipirimidin-2-il)-5-(naftalen-1-ilkarbonil)oktahidropirrolo[3,4-c]pirrol;

2-[(2-Etoxifenil)karbonil]-5-(4-metoxipirimidin-2-il)oktahidropirrolo[3,4-c]pirrol;

2-[(2-Metoxinaftalen-1-il)karbonil]-5-(4-metoxipirimidin-2-il)oktahidropirrolo[3,4-c]pirrol;

2-(Bifenil-2-ilkarbonil)-5-[4-(1H-pirazol-4-il)pirimidin-2-il]oktahidro-pirrolo[3,4-c]pirrol;

2-[4-(1H-Pirazol-4-il)pirimidin-2-il]-5-[(2-tiofen-2-ilfenil)karbonil]oktahidro-pirrolo[3,4-c]pirrol;

2-(3,6-Dimetilpirazin-2-il)-5-[(2-tiofen-2-ilfenil)karbonil]oktahidro-pirrolo[3,4-c]pirrol;

2-(Bifenil-2-ilkarbonil)-5-(3,5-dimetilpirazin-2-il)oktahidropirrolo[3,4-c]pirrol;

2-Metil-3-{5-[(2-tiofen-2-ilfenil)karbonil]hexahidropirrolo[3,4-c]pirrol-2(1H)-il}kinoxalin;

2-[5-(Bifenil-2-ilkarbonil)hexahidropirrolo[3,4-c]pirrol-2(1H)-il]-3-metilkinoxalin;

2-(4,6-Dimetilpirimidin-2-il)-5-{[2-(1H-pirazol-1-il)fenil]karbonil}oktahidro-pirrolo[3,4-c]pirrol;

2-(4,6-Dimetoxipirimidin-2-il)-5-[(2-fluor-6-pirimidin-2-ilfenil)karbonil]oktahidropirrolo[3,4-c]pirrol;

2-(4,6-Dimetilpirimidin-2-il)-5-[(2-piridin-2-ilfenil)karbonil]oktahidro-pirrolo[3,4-c]pirrol;

2-(4,6-Dimetoxipirimidin-2-il)-5-[(2-piridin-2-ilfenil)karbonil]oktahidro-pirrolo[3,4-c]pirrol;

2-(4,6-Dimetoxipirimidin-2-il)-5-[(5-fluor-2-pirimidin-2-ilfenil)karbonil]oktahidropirrolo[3,4-c]pirrol;

2-{4,6-Dimetoxipirimidin-2-il)-5-{[5-fluor-2-(2H-1,2,3-triazol-2-il)fenil]karbonil}oktahidropirrolo[3,4--c]pirrol;

2-{4,6-Dimetilpirimidin-2-il)-5-[(2-fluor-6-pirimidin-2-ilfenil)karbonil]oktahidropirrolo[3,4-c]pirrol;

2-(4,6-Dimetilpirimidin-2-il)-5-[(5-fluor-2-pirimidin-2-ilfenil)karbonil]oktahidropirrolo[3,4-c]pirrol;

2-(4,6-Dimetilpirimidin-2-il)-5-{[5-fluor-2-(2H-1,2,3-triazol-2-il)fenil]karbonil}oktahidropirrolo[3,4-c]-pirrol;

2-(4,6-Dimetilpirimidin-2-il)-5-[(2-etilfenil)karbonil]oktahidropirrolo[3,4-c]pirrol;

2-(4,6-Dimetilpirimidin-2-il)-5-[(2-etoxinaftalen-1-il)karbonil]oktahidro-pirrolo[3,4-c]pirrol;

2-(4,6-Dimetoxipirimidin-2-il)-5-{[2-(1H-pirazol-1-il)fenil]karbonil}oktahidro-pirrolo[3,4-c]pirrol;

2-(4,6-Dimetilpirimidin-2-il)-5-[(5-fenil-1,3-oxazol-4-il)karbonil]oktahidro-pirrolo[3,4-c]pirrol;

2-(4,6-Dimetilpirimidin-2-il)-5-[(5-fenilizoxazol-4-il)karbonil]oktahidro-pirrolo[3,4-c]pirrol;

[5-(2-Izopropil-6-metil-pirimidin-4-il)hexahidropirrolo[3,4-c]pirrol-2-il]-(2-[1,2,3]triazol-2-il-fenil)--metanon;

2-[(2-Brómfenil)karbonil]-5-(4,6-dimetilpirimidin-2-il)oktahidropirrolo[3,4-c]pirrol;

2-(4,6-Dimetilpirimidin-2-il)-5-{[2-(2H-1,2,3-triazol-2-il)fenil]karbonil}oktahidropirrolo[3,4-c]pirrol;

2-(4,6-Dimetoxipirimidin-2-il)-5-{[2-(2H-1,2,3-triazol-2-il)fenil]karbonil}oktahidropirrolo[3,4-c]pirrol;

2-[5-{[2-(4H-1,2,4-Triazol-3-il)fenil]karbonil}hexahidropirrolo[3,4-c]pirrol-2(1H)-il]kinoxalin;

2-[5-{[2-(4H-1,2,4-Triazol-3-il)fenil]karbonil}hexahidropirrolo[3,4-c]pirrol-2(1H)-il]-1,3-benzoxazol;

2-(4-Metilpirimidin-2-il)-5-{[2-(4H-1,2,4-triazol-3-il)fenil]karbonil}oktahidro-pirrolo[3,4-c]pirrol;

2-(4,6-Dimetilpirimidin-2-il)-5-[(2-etoxifenil)karbonil]oktahidropirrolo[3,4-c]pirrol;

2-(4,6-Dimetilpirimidin-2-il)-5-{[4-fluor-2-(trifluormetil)fenil]karbonil}oktahidropirrolo[3,4-c]pirrol;

2-(4,6-Dimetilpirimidin-2-il)-5-[(4-fluornaftalen-1-il)karbonil]oktahidro-pirrolo[3,4-c]pirrol;

2-(4,6-Dimetilpirimidin-2-il)-5-{[2-(1-metiletil)fenil]karbonil}oktahidro-pirrolo[3,4-c]pirrol;

2-(4,6-Dimetilpirimidin-2-il)-5-[(3-metoxi-2-metilfenil)karbonil]oktahidro-pirrolo[3,4-c]pirrol;

2-(4,6-Dimetilpirimidin-2-il)-5-(naftalen-1-ilkarbonil)oktahidropirrolo[3,4-c]pirrol;

2-[5-{[2-(4H-1,2,4-Triazol-3-il)fenil]karbonil}hexahidropirrolo[3,4-c]pirrol-2(1H)-il]-3-(trifluormetil)-kinoxalin;

2-Metil-3-[5-{[2-(4H-1,2,4-triazol-3-il)fenil]karbonil}hexahidropirrolo[3,4-c]pirrol-2(1H)-il]kinoxalin;

2-[6-Metil-2-(trifluormetil)pirimidin-4-il]-5-{[2-(4H-1,2,4-triazol-3-il)fenil]karbonil}oktahidropirrolo[3,4-c]pirrol;

2-[6-Metil-2-(trifluormetil)pirimidin-4-il]-5-{[2-(2H-1,2,3-triazol-2-il)fenil]karbonil}oktahidropirrolo[3,4-c]pirrol;

2-{[2-Fluor-6-(2H-1,2,3-triazol-2-il)fenil]karbonil}-5-[6-metil-2-(trifluormetil)pirimidin-4-il]oktahidropirrolo[3,4-c]pirrol;

2-{[4-Fluor-2-(2H-1,2,3-triazol-2-il)fenil]karbonil}-5-[6-metil-2-(trifluormetil)pirimidin-4-il]oktahidropirrolo[3,4-c]pirrol;

2-(6-Metilpirazin-2-il)-5-{[5-metil-2-(2H-1,2,3-triazol-2-il)fenil]karbonil}oktahidropirrolo[3,4-c]pirrol;

2-(3,6-Dimetilpirazin-2-il)-5-{[2-fluor-6-(2H-1,2,3-triazol-2-il)fenil]karbonil}oktahidropirrolo[3,4-c]-pirrol;

2-(4,6-Dimetilpirimidin-2-il)-5-[(5-metil-2-pirimidin-2-ilfenil)karbonil]oktahidropirrolo[3,4-c]pirrol;

2-(3,6-Dimetilpirazin-2-il)-5-[(5-metil-2-pirimidin-2-ilfenil)karbonil]oktahidropirrolo[3,4-c]pirrol;

2-(3,6-Dimetilpirazin-2-il)-5-{[4-fluor-2-(2H-1,2,3-triazol-2-il)fenil]karbonil}oktahidropirrolo[3,4-c]-pirrol;

2-(4,6-Dimetilpirimidin-2-il)-5-{[5-jód-2-(2H-1,2,3-triazol-2-il)fenil]karbonil}oktahidropirrolo[3,4-c]-pirrol;

4-[5-{[2-Fluor-6-(2H-1,2,3-triazol-2-il)fenil]karbonil}hexahidropirrolo[3,4-c]pirrol-2(1H)-il]-N,N--dimetil-6-(trifluormetil)pirimidin-2-amin;

2-(4,6-Dimetilpirimidin-2-il)-5-{[2-fluor-6-(2H-1,2,3-triazol-2-il)fenil]karbonil}oktahidropirrolo[3,4-c]-pirrol;

N,N-Dimetil-4-{5-[(5-metil-2-pirimidin-2-ilfenil)karbonil]hexahidropirrolo[3,4-c]pirrol-2(1H)-il}-6--(trifluormetil)pirimidin-2-amin;

4-{5-[(5-Fluor-2-pirimidin-2-ilfenil)karbonil]hexahidropirrolo[3,4-c]pirrol-2(1H)-il}-N,N-dimetil-6--(trifluormetil)pirimidin-2-amin;

4-[5-{[5-Fluor-2-(2H-1,2,3-triazol-2-il)fenil]karbonil}hexahidropirrolo[3,4-c]pirrol-2(1H)-il]-N,N--dimetil-6-(trifluormetil)pirimidin-2-amin;

4-[5-{[4-Fluor-2-(2H-1,2,3-triazol-2-il)fenil]karbonil}hexahidropirrolo[3,4-c]pirrol-2(1H)-il]-N,N--dimetil-6-(trifluormetil)pirimidin-2-amin;

2-[(5-Metil-2-pirimidin-2-ilfenil)karbonil]-5-[6-metil-2-(trifluormetil)pirimidin-4-il]oktahidropirro-lo[3,4-c]pirrol;

2-[(5-Fluor-2-pirimidin-2-ilfenil)karbonil]-5-(4-fenil-pirimidin-2-il)oktahidropirrolo[3,4-c]pirrol;

2-{(5-Fluor-2-(2H-1,2,3-triazol-2-il)fenil]karbonil}-5-[6-metil-2-(trifluormetil)pirimidin-4-il]oktahidro-pirrolo[3,4-c]pirrol;

[5-(2,6-Dimetilpirimidin-4-il)hexahidropirrolo[3,4-c]pirrol-2-il]-(5-fluor-2-[1,2,3]triazol-2-il-fenil)--metanon;

4-{5-[(2-Fluor-6-pirimidin-2-ilfenil)karbonil]hexahidropirrolo[3,4-c]pirrol-2(1H)-il}-N,N-dimetil-6--(trifluormetil)pirimidin-2-amin;

2-[(2-Fluor-6-pirimidin-2-ilfenil)karbonil]-5-[6-metil-2-(trifluormetil)pirimidin-4-il]oktahidropirro-lo[3,4-c]pirrol;

2-(4,6-Dimetilpirimidin-2-il)-5-{[4-fluor-2-(2H-1,2,3-triazol-2-il)fenil]karbonil}oktahidropirrolo[3,4-c]-pirrol;

N,N,6-Trimetil-2-[5-{(2-(2H-1,2,3-triazol-2-il)fenil]karbonil}hexahidropirrolo[3,4-c]pirrol-2(1H)--il]pirimidin-4-amin;

N,N,4-Trimetil-6-[5-{[2-(2H-1,2,3-triazol-2-il)fenil]karbonil}hexahidropirrolo[3,4-c]pirrol-2(1H)-il]-pirimidin-2-amin;

N,N-Dimetil-4-[5-{[2-(2H-1,2,3-triazol-2-il)fenil]karbonil}hexahidropirrolo[3,4-c]pirrol-2(1H)-il]-6--(trifluormetil)pirimidin-2-amin;

2-(2,6-Dimetilpirimidin-4-il)-5-{[2-(2H-1,2,3-triazol-2-il)fenil]karbonil}oktahidropirrolo[3,4-c]pirrol;

[5-(3,6-Dimetil-pirazin-2-il)hexahidropirrolo[3,4-c]pirrol-2-il]-(5-metil-2-[1,2,3]triazol-2-il-fenil)--metanon;

2-[5-{[5-Fluor-2-(2H-1,2,3-triazol-2-il)fenil]karbonil}hexahidropirrolo[3,4-c]pirrol-2(1H)-il]-N,N,6--trimetilpirimidin-4-amin;

2-(5-Metoxipiridin-2-il)-5-[(2-tiofen-2-ilfenil)karbonil]oktahidropirrolo[3,4-c]pirrol;

2-[(2-Etoxinaftalen-1-il)karbonil]-5-(4-fenil-pirimidin-2-il)oktahidropirrolo[3,4-c]pirrol;

2-{[5-Metil-2-(2H-1,2,3-triazol-2-il)fenil]karbonil}-5-(4-fenil-pirimidin-2-il)oktahidropirrolo[3,4-c]-pirrol;

(4-Klór-2-[1,2,3]triazol-2-il-fenil)-[5-(4,6-dimetilpirimidin-2-il)hexahidropirrolo[3,4-c]pirrol-2-il]--metanon;

2-(4,6-Dimetoxipirimidin-2-il)-5-{[5-metil-2-(2H-1,2,3-triazol-2-il)fenil]karbonil}oktahidropirrolo[3,4--c]pirrol;

2-(4,6-Dimetilpirimidin-2-il)-5-{[5-metil-2-(2H-1,2,3-triazol-2-il)fenil]karbonil}oktahidropirrolo[3,4--c]pirrol;

2-(4-Fenil-pirimidin-2-il)-5-{[2-(2H-1,2,3-triazol-2-il)fenil]karbonil}oktahidropirrolo[3,4-c]pirrol;

2-(4,6-Dimetilpirimidin-2-il)-5-{[5-(2-fluorfenil)-2-metil-1,3-tiazol-4-il]karbonil}oktahidropirrolo[3,4--c]pirrol;

2-[(2-Tiofen-2-ilfenil)karbonil]-5-[6-(trifluormetil)piridin-2-il]oktahidropirrolo[3,4-c]pirrol;

2-(6-Metilpiridin-2-il)-5-[(2-tiofen-2-ilfenil)karbonil]oktahidropirrolo[3,4-c]pirrol;

2-(4-Metilpirimidin-2-il)-5-{[2-(2H-1,2,3-triazol-2-il)fenil]karbonil}oktahidropirrolo[3,4-c]pirrol;

2-(4-Metilpiridin-2-il)-5-[(2-tiofen-2-ilfenil)karbonil]oktahidropirrolo[3,4-c]pirrol;

2-(6-Metoxipiridin-2-il)-5-[(2-tiofen-2-ilfenil)karbonil]oktahidropirrolo[3,4-c]pirrol;

2-(4,6-Dimetoxipirimidin-2-il)-5-[(2-tiofen-2-ilfenil)karbonil]oktahidropirrolo[3,4-c]pirrol;

2-{5-[(2-Tiofen-2-ilfenil)karbonil]hexahidropirrolo[3,4-c]pirrol-2(1H)-il}-1,3-benzoxazol;

2-[(2-Tiofen-2-ilfenil)karbonil]-5-[3-(trifluormetil)piridin-2-il]oktahidropirrolo[3,4-c]pirrol;

[5-(4-Fenil-pirimidin-2-il)hexahidropirrolo[3,4-c]pirrol-2-il]-[2-(4H-[1,2,4]triazol-3-il)-fenil]-metanon;

2-(4,6-Dimetoxipirimidin-2-il)-5-{[5-(2-fluorfenil)-2-metil-1,3-tiazol-4-il]karbonil}oktahidropirrolo[3,4--c]pirrol;

2-(4-Tiofen-2-ilpirimidin-2-il)-5-{[2-(2H-1,2,3-triazol-2-il)fenil]karbonil}oktahidropirrolo[3,4-c]pirrol;

2-[5-{[2-(2H-1,2,3-Triazol-2-il)fenil]karbonil}hexahidropirrolo[3,4-c]pirrol-2(1H)-il]-1,3-benzoxazol;

2-{5-[(2-Etoxinaftalen-1-il)karbonil]hexahidropirrolo[3,4-c]pirrol-2(1H)-il}kinoxalin;

2-{5-[(5-Fluor-2-pirimidin-2-ilfenil)karbonil]hexahidropirrolo[3,4-c]pirrol-2(1H)-il}kinoxalin;

2-(6-Etoxipiridin-2-il)-5-{[2-(2H-1,2,3-triazol-2-il)fenil]karbonil}oktahidropirrolo[3,4-c]pirrol;

2-[(5-Fluor-2-pirimidin-2-ilfenil)karbonil]-5-[4-(trifluormetil)pirimidin-2-il]oktahidropirrolo[3,4-c]-pirrol;

2-[5-{[2-(2H-1,2,3-Triazol-2-il)fenil]karbonil}hexahidropirrolo[3,4-c]pirrol-2(1H)-il]kinoxalin;

2-[(5-Fluor-2-pirimidin-2-ilfenil)karbonil]-5-(4-metoxipirimidin-2-il)oktahidropirrolo[3,4-c]pirrol;

2-(4-Furan-2-ilpirimidin-2-il)-5-{[2-(2H-1,2,3-triazol-2-il)fenil]karbonil}oktahidropirrolo[3,4-c]pirrol;

2-(5-Fluorpiridin-2-il)-5-{[2-(2H-1,2,3-triazol-2-il)fenil]karbonil}oktahidropirrolo[3,4-c]pirrol;

2-{[2-(2H-1,2,3-Triazol-2-il)fenil]karbonil}-5-[4-(trifluormetil)pirimidin-2-il]oktahidropirrolo[3,4-c]-pirrol;

2-(4-Metoxipirimidin-2-il)-5-{[2-(1H-1,2,4-triazol-5-il)fenil]karbonil}oktahidropirrolo[3,4-c]pirrol;

2-(3,6-Dimetilpirazin-2-il)-5-{[2-(2H-1,2,3-triazol-2-il)fenil]karbonil}oktahidropirrolo[3,4-c]pirrol;

2-(4-Metoxipirimidin-2-il)-5-{[2-(2H-1,2,3-triazol-2-il)fenil]karbonil}oktahidropirrolo[3,4-c]pirrol;

2-{[5-Klór-2-(2H-1,2,3-triazol-2-il)fenil]karbonil}-5-(4,6-dimetilpirimidin-2-il)oktahidropirrolo[3,4-c]-pirrol;

2-{[4-Fluor-2-(2H-1,2,3-triazol-2-il)fenil]karbonil}-5-(6-metilpirazin-2-il)oktahidropirrolo[3,4-c]pirrol;

2-{[4-Fluor-2-(2H-1,2,3-triazol-2-il)fenil]karbonil}-5-(4-metoxipirimidin-2-il)oktahidropirrolo[3,4-c]-pirrol;

2-(4,6-Dimetoxipirimidin-2-il)-5-{[4-fluor-2-(2H-1,2,3-triazol-2-il)fenil]karbonil}oktahidropirrolo[3,4--c]pirrol;

[5-(4,6-Dimetilpirimidin-2-il)hexahidropirrolo[3,4-c]pirrol-2-il]-(5-metoxi-2-[1,2,3]triazol-2-il-fenil)--metanon;

(2-Fluor-6-[1,2,3]triazol-2-il-fenil)-[5-(4-metoxi-pirimidin-2-il)hexahidropirrolo[3,4-c]pirrol-2-il]--metanon;

6-Klór-2-{5-[(2,4-dimetoxifenil)karbonil]hexahidropirrolo[3,4-c]pirrol-2(1H)-il}-1,3-benzotiazol;

2-(Bifenil-2-ilkarbonil)-5-(4-fenil-pirimidin-2-il)oktahidropirrolo[3,4-c]pirrol;

2-{5-[(2,6-Dimetoxifenil)karbonil]hexahidropirrolo[3,4-c]pirrol-2(1H)-il}kinoxalin;

2-[(2,6-Dimetoxifenil)karbonil]-5-(4-fenil-pirimidin-2-il)oktahidropirrolo[3,4-c]pirrol;

2-[(2,4-Dimetoxifenil)karbonil]-5-(4-fenil-pirimidin-2-il)oktahidropirrolo[3,4-c]pirrol;

2-[5-(Bifenil-2-ilkarbonil)hexahidropirrolo[3,4-c]pirrol-2(1H)-il]kinoxalin;

2-[5-(Bifenil-2-ilkarbonil)hexahidropirrolo[3,4-c]pirrol-2(1H)-il]-1,3-benzotiazol;

2-{5-[(2,4-Dimetoxifenil)karbonil]hexahidropirrolo[3,4-c]pirrol-2(1H)-il}-4-metilkinolin;

2-{5-[(2,4-Dimetoxifenil)karbonil]hexahidropirrolo[3,4-c]pirrol-2(1H)-il}-6-metoxi-1,3-benzotiazol;

2-{5-[(2,4-Dimetoxifenil)karbonil]hexahidropirrolo[3,4-c]pirrol-2(1H)-il}-6-metil-1,3-benzotiazol;

2-(Bifenil-2-ilkarbonil)-5-(6-metilpiridin-2-il)oktahidropirrolo[3,4-c]pirrol;

2-(Bifenil-2-ilkarbonil)-5-(4-metilpirimidin-2-il)oktahidropirrolo[3,4-c]pirrol;

2-[5-(Bifenil-2-ilkarbonil)hexahidropirrolo[3,4-c]pirrol-2(1H)-il]kinolin;

2-[5-(Bifenil-2-ilkarbonil)hexahidropirrolo[3,4-c]pirrol-2(1H)-il]-6-fluor-1,3-benzotiazol;

2-(Bifenil-2-ilkarbonil)-5-(4-metoxipirimidin-2-il)oktahidropirrolo[3,4-c]pirrol;

2-[5-(Bifenil-2-ilkarbonil)hexahidropirrolo[3,4-c]pirrol-2(1H)-il]-4-metilkinolin;

(2,4-Dimetoxi-fenil)-[5-(4-metoxi-pirimidin-2-il)hexahidropirrolo[3,4-c]pirrol-2-il]-metanon;

(5-Benzooxazol-2-il-hexahidropirrolo[3,4-c]pirrol-2-il)-(2-metoxi-fenil)-metanon;

(2-Piridin-3-il-fenil)-(5-kinoxalin-2-ilhexahidropirrolo[3,4-c]pirrol-2-il)-metanon;

[5-(4,6-Dimetilpirimidin-2-il)hexahidropirrolo[3,4-c]pirrol-2-il]-[2-(1H-imidazol-2-il)-fenil]-metanon;

(5-Benzooxazol-2-il-hexahidropirrolo[3,4-c]pirrol-2-il)-(2,4-dimetoxi-fenil)-metanon;

(5-Benzooxazol-2-il-hexahidropirrolo[3,4-c]pirrol-2-il)-bifenil-2-il-metanon;

(2,4-Dimetoxi-fenil)-[5-(6-metil-piridin-2-il)hexahidropirrolo[3,4-c]pirrol-2-il]-metanon;

(2,4-Dimetoxi-fenil)-[5-(4-metil-pirimidin-2-il)hexahidropirrolo[3,4-c]pirrol-2-il]-metanon;

Bifenil-2-il-[5-(6-metoxi-benzotiazol-2-il)hexahidropirrolo[3,4-c]pirrol-2-il]-metanon;

Bifenil-2-il-[5-(6-metil-benzotiazol-2-il)hexahidropirrolo[3,4-c]pirrol-2-il]-metanon;

[5-(6-Klór-benzotiazol-2-il)hexahidropirrolo[3,4-c]pirrol-2-il]-(2,6-dimetoxi-fenil)-metanon;

Bifenil-2-il-[5-(6-klór-benzotiazol-2-il)hexahidropirrolo[3,4-c]pirrol-2-il]-metanon;

(2,4-Dimetoxi-fenil)-(5-kinoxalin-2-il-hexahidropirrolo[3,4-c]pirrol-2-il)-metanon;

(5-Benzooxazol-2-il-hexahidropirrolo[3,4-c]pirrol-2-il)-(2,6-dimetoxi-fenil)-metanon;

(4'-Metil-bifenil-2-il)-(5-kinoxalin-2-il-hexahidropirrolo[3,4-c]pirrol-2-il)-metanon;

(5-Kinoxalin-2-il-hexahidropirrolo[3,4-c]pirrol-2-il)-(4'-trifluormetil-bifenil-2-il)-metanon;

(4'-Metil-bifenil-2-il)-[5-(4-fenil-pirimidin-2-il)hexahidropirrolo[3,4-c]pirrol-2-il]-metanon;

[5-(4-Fenil-pirimidin-2-il)hexahidropirrolo[3,4-c]pirrol-2-il]-(4'-trifluormetil-bifenil-2-il)-metanon;

(4-Metoxi-2-metil-fenil)-(5-kinoxalin-2-il-hexahidropirrolo[3,4-c]pirrol-2-il)-metanon;

(3'-Klór-bifenil-2-il)-[5-(4-fenil-pirimidin-2-il)hexahidropirrolo[3,4-c]pirrol-2-il]-metanon;

(2-Metoxi-fenil)-[5-(4-metoxi-pirimidin-2-il)hexahidropirrolo[3,4-c]pirrol-2-il]-metanon;

(2-Metoxi-fenil)-[5-(4-metil-pirimidin-2-il)hexahidropirrolo[3,4-c]pirrol-2-il]-metanon;

[5-(4,6-Dimetilpirimidin-2-il)hexahidropirrolo[3,4-c]pirrol-2-il]-(2-metoxi-fenil)-metanon;

2-[5-(4,6-Dimetilpirimidin-2-il)hexahidropirrolo[3,4-c]pirrol;-2-karbonil]-benzonitril;

Cinnolin-4-il-[5-(4,6-dimetilpirimidin-2-il)hexahidropirrolo[3,4-c]pirrol-2-il]-metanon;

(5-Fluor-2-pirimidin-2-il-fenil)-[5-(6-metil-2-trifluormetil-pirimidin-4-il)hexahidropirrolo[3,4-c]pirrol-2--il]-metanon;

[5-(4,6-Dimetilpirimidin-2-il)hexahidropirrolo[3,4-c]pirrol-2-il]-(2-[1,2,3]triazol-1-il-fenil)-metanon;

[5-(4,6-Dimetilpirimidin-2-il)hexahidropirrolo[3,4-c]pirrol-2-il]-(2-[1,2,4]triazol-1-il-fenil)-metanon;

[5-(4,6-Dimetoxi-pirimidin-2-il)hexahidropirrolo[3,4-c]pirrol-2-il]-(3-fenil-piridin-2-il)-metanon;

[5-(4,6-Dimetilpirimidin-2-il)hexahidropirrolo[3,4-c]pirrol-2-il]-(3-fenil-piridin-2-il)-metanon;

[5-(6-Metil-2-propil-pirimidin-4-il)hexahidropirrolo[3,4-c]pirrol-2-il]-(2-[1,2,3]triazol-2-il-fenil)--metanon;

[5-(2-Metil-pirimidin-4-il)hexahidropirrolo[3,4-c]pirrol-2-il]-(2-[1,2,3]triazol-2-il-fenil)-metanon;

[5-(6-Metil-pirazin-2-il)hexahidropirrolo[3,4-c]pirrol-2-il]-(2-[1,2,3]triazol-2-il-fenil)-metanon;

[5-(3,6-Dimetil-pirazin-2-il)hexahidropirrolo[3,4-c]pirrol-2-il]-(5-fluor-2-pirimidin-2-il-fenil)-metanon;

[5-(3,6-Dimetil-pirazin-2-il)hexahidropirrolo[3,4-c]pirrol-2-il]-[2-(2H-[1,2,4]triazol-3-il)-fenil]-metanon;

[5-(2-Pirrolidin-1-il-6-trifluormetil-pirimidin-4-il)hexahidropirrolo[3,4-c]pirrol-2-il]-(2-[1,2,3]triazol-2--il-fenil)-metanon;

2-(2,6-Dimetilpirimidin-4-il)-5-{[5-fluor-2-(2H-1,2,3-triazol-2-il)fenil]karbonil}oktahidropirrolo[3,4-c]-pirrol;

[5-(4,6-Dimetilpirimidin-2-il)hexahidropirrolo[3,4-c]pirrol-2-il]-(2-nitro-6-[1,2,3]triazol-2-il-fenil)--metanon;

[5-(4,6-Dimetilpirimidin-2-il)hexahidropirrolo[3,4-c]pirrol-2-il]-(2-furan-2-il-fenil)-metanon;

[5-(4,6-Dimetilpirimidin-2-il)hexahidropirrolo[3,4-c]pirrol-2-il]-(2-metil-5-fenil-tiazol-4-il)-metanon;

2-[(2,3-Dimetilfenil)karbonil]-5-(4,6-dimetilpirimidin-2-il)oktahidropirrolo[3,4-c]pirrol;

2-(4,6-Dimetilpirimidin-2-il)-5-[(3-fluor-2-metilfenil)karbonil]oktahidropirrolo[3,4-c]pirrol;

2-(4,6-Dimetilpirimidin-2-il)-5-{[5-fluor-2-(trifluormetil)fenil]karbonil}oktahidropirrolo[3,4-c]pirrol;

2-[(4-Klór-2-metoxifenil)karbonil]-5-(4,6-dimetilpirimidin-2-il)oktahidropirrolo[3,4-c]pirrol;

2-[(5-Klór-2-metilfenil)karbonil]-5-(4,6-dimetilpirimidin-2-il)oktahidropirrolo[3,4-c]pirrol;

2-[(2,5-Dimetilfenil)karbonil]-5-(4,6-dimetilpirimidin-2-il)oktahidropirrolo[3,4-c]pirrol;

2-[(2,6-Dimetilfenil)karbonil]-5-(4,6-dimetilpirimidin-2-il)oktahidropirrolo[3,4-c]pirrol;

2-(4,6-Dimetilpirimidin-2-il)-5-[(5-fluor-2-metilfenil)karbonil]oktahidropirrolo[3,4-c]pirrol;

2-[(2,4-Dimetilfenil)karbonil]-5-(4,6-dimetilpirimidin-2-il)oktahidropirrolo[3,4-c]pirrol;

2-[(2,5-Dietoxifenil)karbonil]-5-(4,6-dimetilpirimidin-2-il)oktahidropirrolo[3,4-c]pirrol;

2-[(2,6-Dietoxifenil)karbonil]-5-(4,6-dimetilpirimidin-2-il)oktahidropirrolo[3,4-c]pirrol;

2-[(2-Klór-6-metilfenil)karbonil]-5-(4,6-dimetilpirimidin-2-il)oktahidropirrolo[3,4-c]pirrol;

(5-(4,6-Dimetilpirimidin-2-il)hexahidropirrolo[3,4-c]pirrol-2(1H)-il)(4-fluor-2-(pirimidin-2-il)fenil)-metanon;

(5-(4,6-dimetilpirimidin-2-il)hexahidropirrolo[3,4-c]pirrol-2(1H)-il)(3-fluor-2-jódfenil)metanon;

2-(4,6-Dimetilpirimidin-2-il)-5-{[2-(trifluormetil)piridin-3-il]karbonil}oktahidropirrolo[3,4-c]pirrol;

(2-Brómpiridin-3-il)(5-(4,6-dimetilpirimidin-2-il)hexahidropirrolo[3,4-c]pirrol-2(1H)-il)metanon;

(5-(4,6-Dimetilpirimidin-2-il)hexahidropirrolo[3,4-c]pirrol-2(1H)-il)(2-(pirimidin-2-il)piridin-3-il)-metanon;

(5-(4,6-Dimetilpirimidin-2-il)hexahidropirrolo[3,4-c]pirrol-2(1H)-il)(2-(1-(tetrahidro-2H-piran-2-il)-1H--pirazol-5-il)piridin-3-il)metanon;

(2-(1H-Pirazol-5-il)piridin-3-il)(5-(4,6-dimetilpirimidin-2-il)hexahidropirrolo[3,4-c]pirrol-2(1H)-il)-metanon;

(2-(2H-1,2,3-Triazol-2-il)piridin-3-il)(5-(4,6-dimetilpirimidin-2-il)hexahidropirrolo[3,4-c]pirrol-2(1H)--il)metanon;

(3-Fluor-2-(pirimidin-2-il)fenil)(5-(4,5,6-trimetilpirimidin-2-il)hexahidropirrolo[3,4-c]pirrol-2(1H)--il)metanon;

(3-Fluor-2-(2H-1,2,3-triazol-2-il)fenil)(5-(4,5,6-trimetilpirimidin-2-il)hexahidropirrolo[3,4-c]pirrol--2(1H)-il)metanon;

(5-Metoxi-2-(2H-1,2,3-triazol-2-il)fenil)(5-(4,5,6-trimetilpirimidin-2-il)hexahidropirrolo[3,4-c]pirrol--2(1H)-il)metanon;

(3-Fluor-2-(2H-1,2,3-triazol-2-il)fenil)(5-(6-fluorkinazolin-2-il)hexahidropirrolo[3,4-c]pirrol-2(1H)--il)metanon;

(3-Fluor-2-(pirimidin-2-il)fenil)(5-(6-fluorkinazolin-2-il)hexahidropirrolo[3,4-c]pirrol-2(1H)-il)metanon;

(5-(6,7-Difluorkinoxalin-2-il)hexahidropirrolo[3,4-c]pirrol-2(1H)-il)(3-fluor-2-(2H-1,2,3-triazol-2-il)-fenil)metanon;

(5-(6,7-Difluorkinoxalin-2-il)hexahidropirrolo[3,4-c]pirrol-2(1H)-il)(5-metoxi-2-(2H-1,2,3-triazol-2--il)fenil)metanon;

(5-(6,7-Difluorkinoxalin-2-il)hexahidropirrolo[3,4-c]pirrol-2(1H)-il)(2-fluor-6-(2H-1,2,3-triazol-2-il)-fenil)metanon;

(2-Bróm-3-fluorfenil)(5-(6-fluorkinazolin-2-il)hexahidropirrolo[3,4-c]pirrol-2(1H)-il)metanon;

(5-(4,6-dimetilpirimidin-2-il)hexahidropirrolo[3,4-c]pirrol-2(1H)-il)(4-fluor-2-(5-metilpiridin-2-il)fenil)-metanon;

(2-Brómpiridin-3-il)(5-(4,5,6-trimetilpirimidin-2-il)hexahidropirrolo[3,4-c]pirrol-2(1H)-il)metanon;

(2-(1-(Tetrahidro-2H-piran-2-il)-1H-pirazol-5-il)piridin-3-il)(5-(4,5,6-trimetilpirimidin-2-il)hexahidro-pirrolo[3,4-c]pirrol-2(1H)-il)metanon;

(2-(1H-Pirazol-5-il)piridin-3-il)(5-(4,5,6-trimetilpirimidin-2-il)hexahidropirrolo[3,4-c]pirrol-2(1H)-il)metanon;

6-[5-{[2-Fluor-6-(2H-1,2,3-triazol-2-il)fenil]karbonil}hexahidropirrolo[3,4-c]pirrol-2(1H)-il]-2-metilpirimidin-4(3H)-on;

2-(2,6-Dimetilpirimidin-4-il)-5-{[5-(4-fluorfenil)-2-metil-1,3-tiazol-4-il]karbonil}oktahidropirrolo[3,4-c]pirrol;

2-(4,6-Dimetilpirimidin-2-il)-5-{[5-(4-fluorfenil)-2-metil-1,3-tiazol-4-il]karbonil}oktahidropirrolo[3,4-c]pirrol;

6-[5-{[5-(4-Fluorfenil)-2-metil-1,3-tiazol-4-il]karbonil}hexahidropirrolo[3,4-c]pirrol-2(1H)-il]-2-metilpirimidin-4(3H)-on;

6-{5-[(5-Fluor-2-pirimidin-2-ilfenil)karbonil]hexahidropirrolo[3,4-c]pirrol-2(1H)-il}-2-metilpirimidin-4(3H)-on;

(5-(4,6-Dimetilpirimidin-2-il)hexahidropirrolo[3,4-c]pirrol-2(1H)-il)(4-fluor-2-(2H-1,2,3-triazol-2-il)-fenil)metanon;

(5-(4,6-Dimetoxipirimidin-2-il)hexahidropirrolo[3,4-c]pirrol-2(1H)-il)(2-fluor-6-(2H-1,2,3-triazol-2-il)fenil)metanon;

(5-(4,6-Dimetilpirimidin-2-il)hexahidropirrolo[3,4-c]pirrol-2(1H)-il)(2-metil-6-(2H-1,2,3-triazol-2-il)fenil)metanon;

(5-(4,6-Dimetilpirimidin-2-il)hexahidropirrolo[3,4-c]pirrol-2(1H)-il)(3-metil-2-(2H-1,2,3-triazol-2-il)fenil)metanon;

(2-Fluor-6-(2H-1,2,3-triazol-2-il)fenil)(5-(5-nitropirimidin-2-il)hexahidropirrolo[3,4-c]pirrol-2(1H)-il)metanon;

Metil-2-(5-(2-fluor-6-(2H-1,2,3-triazol-2-il)benzoil)hexahidropirrolo[3,4-c]pirrol-2(1H)-il)-4-(trifluormetil)pirimidin-5-karboxilát;

2-(5-(2-Fluor-6-(2H-1,2,3-triazol-2-il)benzoil)hexahidropirrolo[3,4-c]pirrol-2(1H)-il)-4-(trifluormetil)pirimidin-5-karbonsav;

(2-(4H-1,2,4-Triazol-4-il)fenil)(5-(4,6-dimetilpirimidin-2-il)hexahidropirrolo[3,4-c]pirrol-2(1H)-il)metanon;

2-(5-(2-Fluor-6-(2H-1,2,3-triazol-2-il)benzoil)hexahidropirrolo[3,4-c]pirrol-2(1H)-il)-6-metilpirimidin-4-karbonsav;

(4,5-Difluor-2-(4H-1,2,4-triazol-4-il)fenil)(5-(4,6-dimetilpirimidin-2-il)hexahidropirrolo[3,4-c]pirrol-2(1H)-il)metanon;

(5-(4,6-Dimetilpirimidin-2-il)hexahidropirrolo[3,4-c]pirrol-2(1H)-il)(3-metil-2-(1H-1,2,3-triazol-1-il)-fenil)metanon;

2-(5-(2-Fluor-6-(2H-1,2,3-triazol-2-il)benzoil)hexahidropirrolo[3,4-c]pirrol-2(1H)-il)-N,N,6-trimetilpirimidin-4-karboxamid;

2-(5-(2-Fluor-6-(2H-1,2,3-triazol-2-il)benzoil)hexahidropirrolo[3,4-c]pirrol-2(1H)-il)-N,N-dimetil-4-(trifluormetil)pirimidin-5-karboxamid;

(5-(4,6-Dimetilpirimidin-2-il)hexahidropirrolo[3,4-c]pirrol-2(1H)-il)(mezitil)metanon;

(2,3-Difluorfenil)(5-(4,6-dimetilpirimidin-2-il)hexahidropirrolo[3,4-c]pirrol-2(1H)-il)metanon;

(5-(4,6-Dimetilpirimidin-2-il)hexahidropirrolo[3,4-c]pirrol-2(1H)-il)(4-metoxi-2-(pirimidin-2-il)fenil)-metanon;

(2,3-Dimetoxifenil)(5-(4,6-dimetilpirimidin-2-il)hexahidropirrolo[3,4-c]pirrol-2(1H)-il)metanon;

(5-(4,6-Dimetilpirimidin-2-il)hexahidropirrolo[3,4-c]pirrol-2(1H)-il)(2-(trifluormetoxi)fenil)metanon;

[5-(4,6-Dimetilpirimidin-2-il)hexahidropirrolo[3,4-c]pirrol-2-il]-(6-metil-2-{1,2,3}triazol-2-il-piridin-3--il)-metanon;

(5-(4,6-Dimetilpirimidin-2-il)hexahidropirrolo[3,4-c]pirrol-2(1H)-il)(2-metoxi-4-metilfenil)metanon;

(5-(4,6-Dimetilpirimidin-2-il)hexahidropirrolo[3,4-c]pirrol-2(1H)-il)(4-metoxi-2-metilfenil)metanon;

(2,6-Difluorfenil)(5-(4,6-dimetilpirimidin-2-il)hexahidropirrolo[3,4-c]pirrol-2(1H)-il)metanon;

2-[5-{[2-Fluor-6-(2H-1,2,3-triazol-2-il)fenil]karbonil}hexahidropirrolo[3,4-c]pirrol-2(1H)-il]-6-metil-pirimidin-4-carbonitril;

2-[4,6-Bisz(trifluormetil)pirimidin-2-il]-5-{[2-fluor-6-(2H-1,2,3-triazol-2-il)fenil]karbonil}oktahidro-pirrolo[3,4-c]pirrol;

2-[5-{[2-Fluor-6-(2H-1,2,3-triazol-2-il)fenil]karbonil}hexahidropirrolo[3,4-c]pirrol-2(1H)-il]-6-metil-pirimidin-4-ol;

(2-Fluor-6-(2H-1,2,3-triazol-2-il)fenil)(5-(4-(furan-2-il)-6-metilpirimidin-2-il)hexahidropirrolo[3,4-c]-pirrol-2(1H)-il)metanon;

2-(4,6-Dimetilpirimidin-2-il)-5-[(3-fluor-2-pirimidin-2-ilfenil)karbonil]oktahidropirrolo[3,4-c]pirrol;

2-(4,6-Dimetilpirimidin-2-il)-5-{[3-fluor-2-(1H-pirazol-5-il)fenil]karbonil}oktahidropirrolo[3,4-c]pirrol;

2-(4,6-Dimetilpirimidin-2-il)-5-{[3-metoxi-2-(2H-1,2,3-triazol-2-il)fenil]karbonil}oktahidropirrolo[3,4--c]pirrol;

2-(4,6-Dimetilpirimidin-2-il)-5-{[3-metoxi-2-(1H-1,2,3-triazol-1-il)fenil]karbonil}oktahidropirrolo[3,4--c]pirrol;

2-(4,6-Dimetilpirimidin-2-il)-5-{[3-fluor-2-(1H-1,2,3-triazol-1-il)fenil]karbonil}oktahidropirrolo[3,4--c]pirrol;

2-(4,6-Dimetilpirimidin-2-il)-5-{[4-metoxi-2-(2H-1,2,3-triazol-2-il)fenil]karbonil}oktahidropirrolo[3,4--c]pirrol;

2-(4,6-Dimetilpirimidin-2-il)-5-{[4-metoxi-2-(1H-1,2,3-triazol-2-il)fenil]karbonil}oktahidropirrolo[3,4--c]pirrol;

2-(5-Fluor-4-metilpirimidin-2-il)-5-{[2-(2H-1,2,3-triazol-2-il)fenil]karbonil}oktahidropirrolo[3,4-c]-pirrol;

2-(2-Klór-5-fluorpirimidin-4-il)-5-{[2-(2H-1,2,3-triazol-2-il)fenil]karbonil}oktahidropirrolo[3,4-c]pirrol;

2-(5-Fluorpirimidin-2-il)-5-{[2-fluor-6-(2H-1,2,3-triazol-2-il)fenil]karbonil}oktahidropirrolo[3,4-c]-pirrol;

2-(5-Fluor-4-metilpirimidin-2-il)-5-{[2-fluor-6-(2H-1,2,3-triazol-2-il)fenil]karbonil}oktahidropirro-lo[3,4-c]pirrol;

2-{[2-Fluor-6-(2H-1,2,3-triazol-2-il)fenil]karbonil}-5-(4,5,6-trimetilpirimidin-2-il)oktahidropirrolo[3,4--c]pirrol;

2-(4,5-Dimetilpirimidin-2-il)-5-{[2-fluor-6-(2H-1,2,3-triazol-2-il)fenil]karbonil}oktahidropirrolo[3,4-c]-pirrol;

2-{[2-Fluor-6-(2H-1,2,3-triazol-2-il)fenil]karbonil}-5-(4-metoxi-6-metilpirimidin-2-il)oktahidropirrolo[3,4-c]pirrol;

2-(4-Etil-6-metilpirimidin-2-il)-5-{[2-fluor-6-(2H-1,2,3-triazol-2-il)fenil]karbonil}oktahidropirrolo[3,4-c]pirrol;

2-{[2-Fluor-6-(2H-1,2,3-triazol-2-il)fenil]karbonil}-5-[4-metil-6-(1-metiletil)pirimidin-2-il]oktahidropirrolo[3,4-c]pirrol;

2-[4-Metil-6-(1-metiletil)pirimidin-2-il]-5-{[2-(2H-1,2,3-triazol-2-il)fenil]karbonil}oktahidropirrolo[3,4-c]pirrol;

2-{[5-(1-Metiletil)-2-(2H-1,2,3-triazol-2-il)fenil]karbonil}-5-[4-metil-6-(1-metiletil)pirimidin-2-il]oktahidropirrolo[3,4-c]pirrol;

2-(4-terc-Butil-6-metilpirimidin-2-il)-5-{[2-fluor-6-(2H-1,2,3-triazol-2-il)fenil]karbonil}oktahidropirrolo[3,4-c]pirrol;

2-(4-Ciklopropil-6-metilpirimidin-2-il)-5-{[2-fluor-6-(2H-1,2,3-triazol-2-il)fenil]karbonil}oktahidropirrolo[3,4-c]pirrol;

2-{[2-Fluor-6-(2H-1,2,3-triazol-2-il)fenil]karbonil}-5-(4-metil-1,3,5-triazin-2-il)oktahidropirrolo[3,4-c]pirrol;

2-{[2-Fluor-6-(2H-1,2,3-triazol-2-il)fenil]karbonil}-5-(4-metil-6-morfolin-4-ilpirimidin-2-il)oktahidropirrolo[3,4-c]pirrol;

2-{[2-(4H-1,2,4-Triazol-3-il)fenil]karbonil}-5-(4,5,6-trimetilpirimidin-2-il)oktahidropirrolo[3,4-c]pirrol;

2-(4,6-Dimetilpirimidin-2-il)-5-{[2-(3-metil-1,2,4-oxadiazol-5-il)fenil]karbonil}oktahidropirrolo[3,4-c]pirrol;

2-(4,6-Dimetilpirimidin-2-il)-5-{[2-(1-metil-1H-1,2,4-triazol-5-il)fenil]karbonil}oktahidropirrolo[3,4-c]pirrol;

2-(4,6-Dimetilpirimidin-2-il)-5-{[2-(1-metil-1H-1,2,4-triazol-3-il)fenil]karbonil}oktahidropirrolo[3,4-c]pirrol;

2-{[2-(3-Metil-1,2,4-oxadiazol-5-il)fenil]karbonil}-5-(4,5,6-trimetilpirimidin-2-il)oktahidropirrolo[3,4-c]pirrol;

2-(5-Fluor-4-metilpirimidin-2-il)-5-{[2-(3-metil-1,2,4-oxadiazol-5-il)fenil]karbonil}oktahidropirrolo[3,4-c]pirrol;

2-{[2-(1-Metil-1H-1,2,4-triazol-3-il)fenil]karbonil}-5-(4,5,6-trimetilpirimidin-2-il)oktahidropirrolo[3,4-c]pirrol;

2-(5-Fluor-4-metilpirimidin-2-il)-5-{[2-(1-metil-1H-1,2,4-triazol-3-il)fenil]karbonil}oktahidropirrolo[3,4-c]pirrol;

2-[5-{[2-Fluor-6-(2H-1,2,3-triazol-2-il)fenil]karbonil}hexahidropirrolo[3,4-c]pirrol-2(1H)-il]-4-metil-6,7-dihidro-5H-ciklopenta[d]pirimidin;

2-(4,6-Dimetilpirimidin-2-il)-5-{[3-fluor-2-(3-metil-1,2,4-oxadiazol-5-il)fenil]karbonil}oktahidropirrolo[3,4-c]pirrol;

2-(4,6-Dimetilpirimidin-2-il)-5-{[2-fluor-6-(3-metil-1,2,4-oxadiazol-5-il)fenil]karbonil}oktahidropirrolo[3,4-c]pirrol;

2-(5-Klór-4-metilpirimidin-2-il)-5-{[2-fluor-6-(2H-1,2,3-triazol-2-il)fenil]karbonil}oktahidropirrolo[3,4-c]pirrol;

2-(5-Klór-4,6-dimetilpirimidin-2-il)-5-{[2-fluor-6-(2H-1,2,3-triazol-2-il)fenil]karbonil}oktahidropirrolo[3,4-c]pirrol;

2-(5-Klór-4,6-dimetilpirimidin-2-il)-5-{[2-(3-metil-1,2,4-oxadiazol-5-il)fenil]karbonil}oktahidropirrolo[3,4-c]pirrol;

4-Metil-2-[5-{[2-(3-metil-1,2,4-oxadiazol-5-il)fenil]karbonil}hexahidropirrolo[3,4-c]pirrol-2(1H)-il]-6,7-dihidro-5H-ciklopenta[d]pirimidin;

2-(5-Klór-4,6-dimetilpirimidin-2-il)-5-{[2-(1-metil-1H-1,2,4-triazol-3-il)fenil]karbonil}oktahidropirrolo[3,4-c]pirrol;

2-(5-Klór-4-metilpirimidin-2-il)-5-{[2-(1-metil-1H-1,2,4-triazol-3-il)fenil]karbonil}oktahidropirrolo[3,4-c]pirrol;

2-(5-Etil-4,6-dimetilpirimidin-2-il)-5-{[2-(1-metil-1H-1,2,4-triazol-3-il)fenil]karbonil}oktahidropirrolo[3,4-c]pirrol;

2-{[3-(2H-1,2,3-Triazol-2-il)piridin-2-il]karbonil}-5-(4,5,6-trimetilpirimidin-2-il)oktahidropirrolo[3,4-c]pirrol;

2-(5-Klór-4,6-dimetilpirimidin-2-il)-5-{[3-(2H-1,2,3-triazol-2-il)piridin-2-il]karbonil}oktahidropirrolo[3,4-c]pirrol;

2-(5-Fluor-4,6-dimetilpirimidin-2-il)-5-{[3-(2H-1,2,3-triazol-2-il)piridin-2-il]karbonil}oktahidropirrolo[3,4-c]pirrol;

2-(4,6-Dimetilpirimidin-2-il)-5-(9H-fluoren-4-ilkarbonil)oktahidropirrolo[3,4-c]pirrol;

[5-(4,6-Dimetilpirimidin-2-il)hexahidropirrolo[3,4-c]pirrol-2-il]-(5-[1,2,3]triazol-2-il-benzo[1,3]dioxol-4-il)-metanon;

[5-(4,6-Dimetilpirimidin-2-il)hexahidropirrolo[3,4-c]pirrol-2-il]-(8-[1,2,3]triazol-2-il-naftalen-1-il)-metanon;

[5-(4,6-Dimetilpirimidin-2-il)hexahidropirrolo[3,4-c]pirrol-2-il]-(4-[1,2,3]triazol-1-il-piridin-3-il)-metanon;

(5-terc-Butil-2-metoxi-fenil)-[5-(4,6-dimetilpirimidin-2-il)hexahidropirrolo[3,4-c]pirrol-2-il]-metanon;

[5-(4,6-Dimetilpirimidin-2-il)hexahidropirrolo[3,4-c]pirrol-2-il]-(1-[1,2,3]triazol-2-il-naftalen-2-il)-metanon;

[5-(4,6-Dimetilpirimidin-2-il)hexahidropirrolo[3,4-c]pirrol-2-il]-(3-[1,2,3]triazol-2-il-piridin-2-il)-metanon;

(2-Bróm-4,5-dimetoxi-fenil)-[5-(4,6-dimetilpirimidin-2-il)hexahidropirrolo[3,4-c]pirrol-2-il]-metanon;

(3,4-Dihidro-2H-benzo[b][1,4]dioxepin-6-il)-[5-(4,6-dimetilpirimidin-2-il)hexahidropirrolo[3,4-c]pirrol-2-il]-metanon;

(5-(4,6-Dimetilpirimidin-2-il)hexahidropirrolo[3,4-c]pirrol-2(1H)-il)(4-fluor-2-(6-metilpiridin-2-il)fenil)-metanon;

[5-(4,6-Dimetilpirimidin-2-il)hexahidropirrolo[3,4-c]pirrol-2-il]-(6-metil-2-[1,2,3]triazol-1-il-piridin-3-il)-metanon;

(1-Bróm-naftalen-2-il)-[5-(4,6-dimetilpirimidin-2-il)hexahidropirrolo[3,4-c]pirrol-2-il]-metanon;

[5-(4,6-Dimetilpirimidin-2-il)hexahidropirrolo[3,4-c]pirrol-2-il]-(3-metoxi-naftalen-2-il)-metanon;

[5-(4,6-Dimetilpirimidin-2-il)hexahidropirrolo[3,4-c]pirrol-2-il]-(8-[1,2,3]triazol-2-il-naftalen-1-il)--metanon;

[5-(4,6-Dimetilpirimidin-2-il)hexahidropirrolo[3,4-c]pirrol-2-il]-(1-metoxi-naftalen-2-il)-metanon;

(4,5-Dimetoxi-2-[1,2,3]triazol-1-il-fenil)-[5-(4,6-dimetilpirimidin-2-il)hexahidropirrolo[3,4-c]pirrol-2--il]-metanon;

(4,5-Dimetoxi-2-[1,2,3]triazol-2-il-fenil)-[5-(4,6-dimetilpirimidin-2-il)hexahidropirrolo[3,4-c]pirrol-2--il]-metanon;

(5-(4,6-Dimetilpirimidin-2-il)hexahidropirrolo[3,4-c]pirrol-2(1H)-il)(4-fluor-2-(4-metilpiridin-2-il)fenil)-metanon;

(5-(4,6-Dimetilpirimidin-2-il)hexahidropirrolo[3,4-c]pirrol-2(1H)-il)(3-propoxipiridin-2-il)metanon;

(3-Propoxipiridin-2-il)(5-(5-(trifluormetil)pirimidin-2-il)hexahidropirrolo[3,4-c]pirrol-2(1H)-il)metanon;

(5-(4,6-Dimetilpirimidin-2-il)hexahidropirrolo[3,4-c]pirrol-2(1H)-il)(4-fluor-2-(3-fluorpiridin-2-il)fenil)-metanon;

(3-Propoxipiridin-2-il)(5-(kinoxalin-2-il)hexahidropirrolo[3,4-c]pirrol-2(1H)-il)metanon;

2-(5-([1,1'-Bifenil]-2-ilszulfonil)hexahidropirrolo[3,4-c]pirrol-2(1H)-il)kinoxalin;

2-[(2,6-Dimetoxifenil)karbonil]-5-[5-(trifluormetil)piridin-2-il]oktahidropirrolo[3,4-c]pirrol;

(2,6-Dimetoxifenil)(5-(5-(trifluormetil)pirimidin-2-il)hexahidropirrolo[3,4-c]pirrol-2(1H)-il)metanon;

(2,6-Dimetoxifenil)(5-(4,6-dimetilpirimidin-2-il)hexahidropirrolo(3,4-c]pirrol-2(1H)-il)metanon;

(5-(4,6-Dimetilpirimidin-2-il)hexahidropirrolo[3,4-c]pirrol-2(1H)-il)(3-metilfuran-2-il)metanon;

2-[(3-Metilfuran-2-il)karbonil]-5-[5-(trifluormetil)piridin-2-il]oktahidropirrolo[3,4-c]pirrol;

(3-Metilfuran-2-il)(5-(5-(trifluormetil)pirimidin-2-il)hexahidropirrolo[3,4-c]pirrol-2(1H)-il)metanon;

(3-Metilfuran-2-il)(5-(kinoxalin-2-il)hexahidropirrolo[3,4-c]pirrol-2(1H)-il)metanon;

2-([1,1'-Bifenil]-2-ilszulfonil)-5-(5-(trifluormetil)piridin-2-il)oktahidropirrolo[3,4-c]pirrol;

2-([1,1'-Bifenil]-2-ilszulfonil)-5-(5-(trifluormetil)pirimidin-2-il)oktahidropirrolo[3,4-c]pirrol;

2-([1,1'-Bifenil]-2-ilszulfonil)-5-(4,6-dimetilpirimidin-2-il)oktahidropirrolo[3,4-c]pirrol;

2-(4,6-Dimetilpirimidin-2-il)-5-((2-metoxifenil)szulfonil)oktahidropirrolo[3,4-c]pirrol;

2-((2-Metoxifenil)szulfonil)-5-(5-(trifluormetil)pirimidin-2-il)oktahidropirrolo[3,4-c]pirrol;

2-((2-Metoxifenil)szulfonil)-5-(5-(trifluormetil)piridin-2-il)oktahidropirrolo[3,4-c]pirrol;

2-(5-((2-Metoxifenil)szulfonil)hexahidropirrolo[3,4-c]pirrol-2(1H)-il)kinoxalin;

(3,6'-Dimetil-[2,3'-bipiridin]-2'-il)(5-(kinoxalin-2-il)hexahidropirrolo[3,4-c]pirrol-2(1H)-il)metanon;

(3,6'-Dimetil-[2,3'-bipiridin]-2'-il)(5-(5-(trifluormetil)pirimidin-2-il)hexahidropirrolo[3,4-c]pirrol-2(1H)--il)metanon;

(3,6'-Dimetil-[2,3'-bipiridin]-2'-il)(5-(5-(trifluormetil)piridin-2-il)hexahidropirrolo[3,4-c]pirrol-2(1H)--il)metanon;

(5-(4,6-Dimetilpirimidin-2-il)hexahidropirrolo[3,4-c]pirrol-2(1H)-il)(4-fluor-2-(piridin-2-il)fenil)-metanon;

(5-(4,6-Dimetilpirimidin-2-il)hexahidropirrolo[3,4-c]pirrol-2(1H)-il)(3-fluor-2-(piridin-2-il)fenil)-metanon;

[2,3'-Bipiridin]-2'-il(5-(4,6-dimetilpirimidin-2-il)hexahidropirrolo[3,4-c]pirrol-2(1H)-il)metanon;

(5-(4,6-Dimetilpirimidin-2-il)hexahidropirrolo[3,4-c]pirrol-2(1H)-il)(4-fluor-2-(oxazol-2-il)fenil)-metanon;

(5-(4,6-Dimetilpirimidin-2-il)hexahidropirrolo[3,4-c]pirrol-2(1H)-il)(3-fluor-2-(6-metilpiridin-2-il)fenil)-metanon;

(5-(4,6-Dimetilpirimidin-2-il)hexahidropirrolo[3,4-c]pirrol-2(1H)-il)(3-fluor-2-(3-metilpiridin-2-il)fenil)-metanon;

(2-(3-Klórpiridin-2-il)-3-fluorfenil)(5-(4,6-dimetilpirimidin-2-il)hexahidropirrolo[3,4-c]pirrol-2(1H)--il)metanon;

(5-(4,6-Dimetilpirimidin-2-il)hexahidropirrolo[3,4-c]pirrol-2(1H)-il)(3-fluor-2-(4-metilpiridin-2-il)fenil)-metanon;

(5-(4,6-Dimetilpirimidin-2-il)hexahidropirrolo[3,4-c]pirrol-2(1H)-il)(3-fluor-2-(5-metilpiridin-2-il)fenil)-metanon;

(5-(4,6-Dimetilpirimidin-2-il)hexahidropirrolo[3,4-c]pirrol-2(1H)-il)(3-fluor-2-(3-fluorpiridin-2-il)fenil)-metanon;

(5-(4,6-Dimetilpirimidin-2-il)hexahidropirrolo[3,4-c]pirrol-2(1H)-il)(3-fluor-2-(oxazol-2-il)fenil)-metanon;

2-(5-Fluor-4-metilpirimidin-2-il)-5-{[4-metoxi-2-(2H-1,2,3-triazol-2-il)fenil]karbonil}oktahidro-pirrolo[3,4-c]pirrol;

2-(5-Klór-4-metilpirimidin-2-il)-5-{[4-metoxi-2-(2H-1,2,3-triazol-2-il)fenil]karbonil}oktahidro-pirrolo[3,4-c]pirrol;

2-(5-Fluor-4,6-dimetilpirimidin-2-il)-5-{[4-metoxi-2-(2H-1,2,3-triazol-2-il)fenil]karbonil}oktahidro-pirrolo[3,4-c]pirrol;

2-(4,5-Dimetilpirimidin-2-il)-5-{[4-metoxi-2-(2H-1,2,3-triazol-2-il)fenil]karbonil}oktahidropirrolo[3,4--c]pirrol;

2-[(3-Propoxipiridin-2-il)karbonil]-5-[5-(trifluormetil)piridin-2-il]oktahidropirrolo[3,4-c]pirrol;

2-{4,6-bisz[(2H3)metil](2H)pirimidin-2-il}-5-{[2-fluor-6-(2H-1,2,3-triazol-2-il)fenil]karbonil}okta-hidropirrolo[3,4-c]pirrol;

2-{4,6-bisz[(2H3)metil](2H)pirimidin-2-il}-5-{[3-fluor-2-(3-metil-1,2,4-oxadiazol-5-il)fenil]karbonil}--oktahidropirrolo[3,4-c]pirrol;

2-{4,6-bisz[(2H3)metil](2H)pirimidin-2-il}-5-{[4-metoxi-2-(2H-1,2,3-triazol-2-il)fenil]karbonil}--oktahidropirrolo[3,4-c]pirrol;

2-(5-Etil-4,6-dimetilpirimidin-2-il)-5-{[3-(2H-1,2,3-triazol-2-il)piridin-2-il]karbonil}oktahidro-pirrolo[3,4-c]pirrol;

2-(4,6-Dimetilpirimidin-2-il)-5-{[3-(3-metil-1,2,4-oxadiazol-5-il)piridin-2-il]karbonil}oktahidro-pirrolo[3,4-c]pirrol;

(5-(6,7-Difluorkinoxalin-2-il)hexahidropirrolo[3,4-c]pirrol-2(1H)-il)(3-fluor-2-(pirimidin-2-il)fenil)-metanon;

(5-(6,7-Difluorkinoxalin-2-il)hexahidropirrolo[3,4-c]pirrol-2(1H)-il)(3-fluor-2-(pirimidin-2-il)fenil)-metanon;

(5-(6,7-Difluorkinoxalin-2-il)hexahidropirrolo[3,4-c]pirrol-2(1H)-il)(4-metoxi-2-(2H-1,2,3-triazol-2-il)fenil)metanon;

(5-(6-(Dimetilamino)pirimidin-4-il)hexahidropirrolo[3,4-c]pirrol-2(1H)-il)(4-metoxi-2-(2H-1,2,3-triazol-2-il)fenil)metanon;

(5-(6-(Dimetilamino)-2-metilpirimidin-4-il)hexahidropirrolo[3,4-c]pirrol-2(1H)-il)(4-metoxi-2-(2H-1,2,3-triazol-2-il)fenil)metanon;

(5-(6-(Dimetilamino)-2-metilpirimidin-4-il)hexahidropirrolo[3,4-c]pirrol-2(1H)-il)(3-fluor-2-(pirimidin-2-il)fenil)metanon;

(5-(6-(Dimetilamino)pirimidin-4-il)hexahidropirrolo[3,4-c]pirrol-2(1H)-il)(3-fluor-2-(pirimidin-2-il)fenil)metanon;

(3-Fluor-2-(pirimidin-2-il)fenil)(5-(5-fluor-4,6-dimetilpirimidin-2-il)hexahidropirrolo[3,4-c]pirrol-2(1H)-il)metanon;

(5-(5-Klór-4,6-dimetilpirimidin-2-il)hexahidropirrolo[3,4-c]pirrol-2(1H)-il)(3-fluor-2-(pirimidin-2-il)fenil)metanon;

(5-(5-Klór-4-metilpirimidin-2-il)hexahidropirrolo[3,4-c]pirrol-2(1H)-il)(3-fluor-2-(pirimidin-2-il)fenil)-metanon;

(3-Fluor-2-(pirimidin-2-il)fenil)(5-(5-fluor-4-metilpirimidin-2-il)hexahidropirrolo[3,4-c]pirrol-2(1H)-il)metanon;

(5-(4,5-Dimetilpirimidin-2-il)hexahidropirrolo[3,4-c]pirrol-2(1H)-il)(3-fluor-2-(pirimidin-2-il)fenil)-metanon;

(5-(4,6-Dimetilpirimidin-2-il)hexahidropirrolo[3,4-c]pirrol-2(1H)-il)(5-fluor-2-(6-metilpiridin-2-il)fenil)-metanon;

(5-(4,6-Dimetilpirimidin-2-il)hexahidropirrolo[3,4-c]pirrol-2(1H)-il)(5-fluor-2-(4-metilpiridin-2-il)fenil)-metanon;

(5-(4,6-Dimetilpirimidin-2-il)hexahidropirrolo[3,4-c]pirrol-2(1H)-il)(5-fluor-2-(5-metilpiridin-2-il)fenil)-metanon;

(5-(4,6-Dimetilpirimidin-2-il)hexahidropirrolo[3,4-c]pirrol-2(1H)-il)(5-fluor-2-(3-fluorpiridin-2-il)fenil)-metanon;

(5-(4,6-Dimetilpirimidin-2-il)hexahidropirrolo[3,4-c]pirrol-2(1H)-il)(5-fluor-2-(piridin-2-il)fenil)-metanon;

(5-(4,6-Dimetilpirimidin-2-il)hexahidropirrolo[3,4-c]pirrol-2(1H)-il)(4-fluor-2-(oxazol-2-il)fenil)-metanon;

(5-(4,6-Dimetilpirimidin-2-il)hexahidropirrolo[3,4-c]pirrol-2(1H)-il)(6-fluor-2-(6-metilpiridin-2-il)fenil)-metanon;

(5-(4,6-Dimetilpirimidin-2-il)hexahidropirrolo[3,4-c]pirrol-2(1H)-il)(6-fluor-2-(4-metilpiridin-2-il)fenil)-metanon;

(5-(4,6-Dimetilpirimidin-2-il)hexahidropirrolo[3,4-c]pirrol-2(1H)-il)(6-fluor-2-(5-metilpiridin-2-il)fenil)-metanon;

(5-(4,6-Dimetilpirimidin-2-il)hexahidropirrolo[3,4-c]pirrol-2(1H)-il)(6-fluor-2-(3-fluorpiridin-2-il)fenil)-metanon;

(5-(4,6-Dimetilpirimidin-2-il)hexahidropirrolo[3,4-c]pirrol-2(1H)-il)(6-fluor-2-(piridin-2-il)fenil)-metanon;

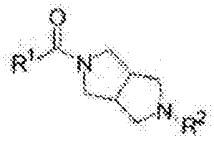
(5-(4,6-Dimetilpirimidin-2-il)hexahidropirrolo[3,4-c]pirrol-2(1H)-il)(6-fluor-2-(oxazol-2-il)fenil)-metanon;

(3,6'-Dimetil-[2,3'-bipiridin]-2'-il)(5-(kinoxalin-2-il)hexahidropirrolo[3,4-c]pirrol-2(1H)-il)metanon; és

[5-(4,6-Dimetilpirimidin-2-il)hexahidropirrolo[3,4-c]pirrol-2-il]-(2-fluor-6-[1,2,3]triazol-2-il-fenil)--metanon·HCl·1,65 H_2O.

35. Gyógyszerkészítmény orexin aktivitás által mediált betegség, rendellenesség vagy gyógyászati állapot kezelésére, amely gyógyszerkészítmény tartalmazza a következőket:

(a) hatásos mennyiségben legalább egy kémiai entitás, amely az (I) képletű vegyületek közül van kiválasztva,



(I) képlet

ahol

R^1 jelentése a következőkből álló csoport egy tagja:

A) fenil, amely szubsztituálva van vagy nincs szubsztituálva egy vagy két R^a taggal és *orto*--helyzetben szubsztituálva van R^b szubsztituenssel;

R^a jelentései egymástól függetlenül a következőkből álló csoportból vannak kiválasztva: -H, halogén, C_{1-4}alkil, C_{1-4}alkoxi és $-NO_2$, ahol két szomszédos R^a tag együtt egy hat-tagú aromás gyűrűt képezhet;

R^b jelentése a következőkből álló csoport egy tagja:

a) halogén, C_{1-4}alkoxi, C_{1-4}alkil, $-CF_3$, $-OCF_3$ vagy -CN;

b) 5-tagú heteroaril-gyűrű, amely egy oxigén vagy egy kén tagot tartalmaz;

c) 5-6 tagú heteroaril-gyűrű, amely egy, kettő vagy három nitrogén tagot tartalmaz, adott esetben egy oxigén tagot tartalmaz, szubsztituálva van vagy nincs szubsztituálva halogén vagy C_{1-4}alkil szubsztituenssel; és

d) fenil, amely szubsztituálva van vagy nincs szubsztituálva halogén, $-CH_3$ vagy $-CF_3$ szubsztituenssel;

B) piridin, amely szubsztituálva van vagy nincs szubsztituálva egy vagy két R^c taggal és szubsztituálva van R^d szubsztituenssel, ahol R^d az R^1 kapcsolódási pontjával szomszédos helyzetben van;

R^c jelentése C_{1-4}alkil;

R^d jelentése a következőkből álló csoport egy tagja:

a) 5-6 tagú heteroaril-gyűrű, amely a következőkből álló csoportból van kiválasztva: 1H-1,2,3--triazol-1-il, 2H-1,2,3-triazol-2-il, 1H-pirazol-5-il, 3-metil-1,2,4-oxadiazol-5-il, piridinil, 3--metil-piridin-2-il; 1-(tetrahidro-2H-piran-2-il)-1H-pirazol-5-il), fenil és pirimidin-2-il; és

b) $-CF_3$, -Br és C_{1-4}alkoxi;

C) 5-tagú heteroaril-gyűrű, amely a következőkből álló csoportból van kiválasztva: 2-metil-1,3--tiazol-il, 1H-pirazol-5-il, oxazol, izoxazolil, tiofen-2-il és furan-2-il, amelyek mindegyike szubsztituálva van fenilcsoporttal, amely szubsztituálva van vagy nincs szubsztituálva -F atommal; és

D) 5-13 tagú aril vagy heteroaril-gyűrű, amely a következőkből álló csoportból van kiválasztva: 3-metilfuran-2-il, 9H-fluorén, kinolin, cinnolin; 3-(1H-pirrol-1-il)tiofen-2-il, 8-[1,2,3]-triazol-2-il--naftalen-1-il, 2,3-dihidro-1,4-benzodioxin-5-il, 1H-indol-7-il, 4-fluornaftalen-1-il és naftalen-1--il;

R^2 jelentése a következőkből álló csoport egy tagja:

A) 6-tagú heteroaril-gyűrű, amely két nitrogén tagot tartalmaz, szubsztituálva van a következőkből álló csoportból egymástól függetlenül kiválasztott egy vagy több taggal: halogén, C_{1-4}alkil, $-CD_3$, -D, C_{1-4}alkoxi, ciklopropil, morfolin-2-il, $-CO_2C_{1-4}$alkil, $-CO_2H$, $-CH_2OH$, $-C(O)N(C_{1-4}alkil)_2$, --CF_3, -CN, -OH, $-NO_2$, $-N(C_{1-4}alkil)_2$, fenil, furan-2-il, tiofen-2-il, 1H-pirazol-4-il és pirrolidin-1--il;

B) piridin, amely szubsztituálva van a következőkből álló csoportból egymástól függetlenül kiválasztott egy vagy több taggal: halogén, C_{1-4}alkil, C_{1-4}alkoxi és $-CF_3$;

C) 9-tagú heteroaril-gyűrű, amely a következőkből álló csoportból van kiválasztva: benzooxazol-2-il, 2-metilpirimidin-4(3H)-on, 6-fluor-1,3-benzotiazol, 1,3-benzotiazol, 6-metoxi-1,3-benzotiazol, 6--metil-1,3-benzotiazol, 6-klór-benzotiazol-2-il és 4-metil-6,7-dihidro-5H-ciklopenta[d]pirimidin;

D) 10-tagú heteroaril-gyűrű, amely a következőkből álló csoportból van kiválasztva: kinoxalin-2-il, 3-metilkinoxalin-2-il, 6,7-difluorkinoxalin-2-il, 3-(trifluormetil)kinoxalin, kinolin, 4-metilkinolin és 6-fluorkinazolin-2-il; és

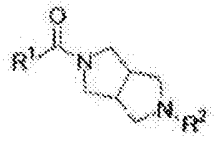
E) 4-metil-1,3,5-triazin-2-il;

és az (I) képletű vegyületek gyógyszerészetileg elfogadható sói; és

(b) legalább egy gyógyszerészetileg elfogadható adalékanyag.

36. Gyógyszerkészítmény, amely a 34. igénypont szerinti kémiai entitás legalább egyikének hatásos mennyiségét és legalább egy gyógyszerészetileg elfogadható adalékanyagot tartalmaz.

37. Legalább egy kémiai entitás, amely az (I) képletű vegyületek közül van kiválasztva,



(I) képlet

ahol

R^1 jelentése a következőkből álló csoport egy tagja:

A) fenil, amely szubsztituálva van vagy nincs szubsztituálva egy vagy két R^3 taggal és *orto*--helyzetben szubsztituálva van R^5 szubsztituenssel;

R^a jelentései egymástól függetlenül a következőkből álló csoportból vannak kiválasztva: -H, halogén, C_{1-4}alkil, C_{1-4}alkoxi és $-NO_2$, ahol két szomszédos R^a tag együtt egy hat-tagú aromás gyűrűt képezhet;

R^b jelentése a következőkből álló csoport egy tagja:

a) halogén, C_{1-4}alkoxi, C_{1-4}alkil, $-CF_3$, $-OCF_3$ vagy -CN;

b) 5-tagú heteroaril-gyűrű, amely egy oxigén vagy egy kén tagot tartalmaz;

c) 5-6 tagú heteroaril-gyűrű, amely egy, kettő vagy három nitrogén tagot tartalmaz, adott esetben egy oxigén tagot tartalmaz, szubsztituálva van vagy nincs szubsztituálva halogén vagy C_{1-4}alkil szubsztituenssel; és

d) fenil, amely szubsztituálva van vagy nincs szubsztituálva halogén, $-CH_3$ vagy $-CF_3$ szubsztituenssel;

B) piridin, amely szubsztituálva van vagy nincs szubsztituálva egy vagy két R^c taggal és szubsztituálva van R^d szubsztituenssel, ahol R^d az R^1 kapcsolódási pontjával szomszédos helyzetben van;

R^c jelentése C_{1-4}alkil;

R^d jelentése a következőkből álló csoport egy tagja:

a) 5-6 tagú heteroaril-gyűrű, amely a következőkből álló csoportból van kiválasztva: 1H-1,2,3--triazol-1-il, 2H-1,2,3-triazol-2-il, 1H-pirazol-5-il, 3-metil-1,2,4-oxadiazol-5-il, piridinil, 3--metil-piridin-2-il; 1-(tetrahidro-2H-piran-2-il)-1H-pirazol-5-il), fenil és pirimidin-2-il; és

b) $-CF_3$, -Br és C_{1-4}alkoxi;

C) 5-tagú heteroaril-gyűrű, amely a következőkből álló csoportból van kiválasztva: 2-metil-1,3--tiazol-il, 1H-pirazol-5-il, oxazol, izoxazolil, tiofen-2-il és furan-2-il, amelyek mindegyike szubsztituálva van fenilcsoporttal, amely szubsztituálva van vagy nincs szubsztituálva -F atommal; és

D) 5-13 tagú aril vagy heteroaril-gyűrű, amely a következőkből álló csoportból van kiválasztva: 3-metilfuran-2-il, 9H-fluorén, kinolin, cinnolin; 3-(1H-pirrol-1-il)tiofen-2-il, 8-[1,2,3]-triazol-2-il--naftalen-1-il, 2,3-dihidro-1,4-benzodioxin-5-il, 1H-indol-7-il, 4-fluornaftalen-1-il és naftalen-1--il;

R^2 jelentése a következőkből álló csoport egy tagja:

A) 6-tagú heteroaril-gyűrű, amely két nitrogén tagot tartalmaz, szubsztituálva van a következőkből álló csoportból egymástól függetlenül kiválasztott egy vagy több taggal: halogén, C_{1-4}alkil, $-CD_3$, -D, C_{1-4}alkoxi, ciklopropil, morfolin-2-il, $-CO_2C_1$-4alkil, $-CO_2H$, $-CH_2OH$, - $C(O)N(C_{1-4}alkil)_2$, --CF_3, -CN, -OH, $-NO_2$, $-N(C_{1-4}alkil)_2$, fenil, furan-2-il, tiofen-2-il, 1H-pirazol-4-il és pirrolidin-1--il;

B) piridin, amely szubsztituálva van a következőkből álló csoportból egymástól függetlenül kiválasztott egy vagy több taggal: halogén, C_{1-4}alkil, C_{1-4}alkoxi és $-CF_3$;

C) 9-tagú heteroaril-gyűrű, amely a következőkből álló csoportból van kiválasztva:

benzooxazol-2-il, 2-metilpirimidin-4(3H)-on, 6-fluor-1,3-benzotiazol, 1,3-benzotiazol, 6-metoxi--1,3-benzotiazol, 6-metil-1,3-benzotiazol, 6-klór-benzotiazol-2-il és 4-metil-6,7-dihidro-5H--ciklopenta[d]pirimidin;

D) 10-tagú heteroaril-gyűrű, amely a következőkből álló csoportból van kiválasztva: kinoxalin-2-il, 3-metilkinoxalin-2-il, 6,7-difluorkinoxalin-2-il, 3-(trifluormetil)kinoxalin, kinolin, 4-metilkinolin és 6-fluorkinazolin-2-il; és

E) 4-metil-1,3,5-triazin-2-il;

és az (I) képletű vegyületek gyógyszerészetileg elfogadható sói és legalább egy gyógyszerészetileg elfogadható adalékanyag egy egyed kezelési eljárásban történő alkalmazásra, amely egyed egy orexin receptor aktivitás által mediált betegségben, rendellenességben vagy gyógyászati állapotban szenved vagy ilyet diagnosztizáltak nála.

38. A 37. igénypont szerinti legalább egy kémiai entitás és legalább egy gyógyszerészetileg elfogadható adalékanyag a megadott alkalmazásra, ahol a kémiai entitás [5-(4,6-dimetilpirimidin-2-il)hexahidropirrolo[3,4--c]pirrol-2-il]-(2-fluor-6-[1,2,3]triazol-2-il-fenil)-metanon vagy ennek gyógyszerészetileg elfogadható sója.

39. A 38. igénypont szerinti legalább egy kémiai entitás és legalább egy gyógyszerészetileg elfogadható adalékanyag a megadott alkalmazásra, ahol a kémiai entitás [5-(4,6-dimetilpirimidin-2-il)hexahidropirrolo[3,4--c]pirrol-2-il]-(2-fluor-6-[1,2,3]triazol-2-il-fenil)-metanon HCl sója.

40. A 38. igénypont szerinti legalább egy kémiai entitás és legalább egy gyógyszerészetileg elfogadható adalékanyag a megadott alkalmazásra, ahol a kémiai entitás [5-(4,6-dimetilpirimidin-2-il)hexahidropirrolo[3,4--c]pirrol-2-il]-(2-fluor-6-[1,2,3]triazol-2-il-fenil)-metanon.

41. A 37. igénypont szerinti legalább egy kémiai entitás és legalább egy gyógyszerészetileg elfogadható adalékanyag a megadott alkalmazásra, ahol a kémiai entitás 2-(4,6-dimetilpirimidin-2-il)-5-{[4-metoxi-2-(2H--1,2,3-triazol-2-il)fenil]karbonil}oktahidropirrolo[3,4-c]pirrol vagy ennek gyógyszerészetileg elfogadható sója.

42. A 41. igénypont szerinti legalább egy kémiai entitás és legalább egy gyógyszerészetileg elfogadható adalékanyag a megadott alkalmazásra, ahol a kémiai entitás 2-(4,6-dimetilpirimidin-2-il)-5-{[4-metoxi-2-(2H--1,2,3-triazol-2-il)fenil]karbonil}oktahidropirrolo[3,4-c]pirrol.

43. A 37. igénypont szerinti legalább egy kémiai entitás és legalább egy gyógyszerészetileg elfogadható adalékanyag a megadott alkalmazásra, ahol a betegség, rendellenesség vagy gyógyászati állapot a következőből álló csoportból van kiválasztva: alvás-ébrenlét ciklus rendellenességei, álmatlanság, nyugtalan lábak tünetcsoport, időzóna eltolódás, megzavart alvás, neurológiai rendellenességeknél másodlagosan jelentkező alvási rendellenességek, mániák, depressziók, mániás depresszió, skizofrénia, fájdalom tünetcsoport, fibromialgia, neuropátiás fájdalom, katatónia, Parkinson-kór, Tourette tünetcsoport, szorongás, delírium, elmebajok, túlsúly és elhízás és túlsúllyal és elhízással kapcsolatos állapotok, inzulin rezisztencia, 2-es típusú diabétesz, hiperlipidémia, epekövek, angina, magasvérnyomás, légszomj, szapora szívverés, meddőség, légzés elakadás alvás közben, hát- és ízületi fájdalom, visszeres vénák, idült ízületi gyulladással járó csontbetegség, magasvérnyomás, szapora szívverés, aritmiák, angina pectoris, akut szívelégtelenség, fekélyek, irritábilis bél tünetcsoport, hasmenés és gyomor-nyelőcső reflux.

44. A 37. igénypont szerinti legalább egy kémiai entitás és legalább egy gyógyszerészetileg elfogadható adalékanyag a megadott alkalmazásra, ahol a betegség, rendellenesség vagy gyógyászati állapot álmatlanság.