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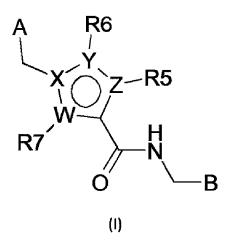
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(54) Titre: COMPOSES N-((HET)ARYLMETHYL)-HETEROARYL-CARBOXAMIDES COMME INHIBITEURS DE LA KALLIKREINE PLASMATIQUE

(54) Title: N-((HET)ARYLMETHYL)-HETEROARYL-CARBOXAMIDES COMPOUNDS AS PLASMA KALLIKREIN **INHIBITORS**



(57) Abrégé/Abstract:

The present invention provides compounds of formula (I): (see formula I) compositions comprising such compounds; the use of such compounds in therapy (for example in the treatment or prevention of a disease or condition in which plasma kallikrein activity is implicated); and methods of treating patients with such compounds.





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ABSTRACT

The present invention provides compounds of formula (I):

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compositions comprising such compounds; the use of such compounds in therapy (for example in the treatment or prevention of a disease or condition in which plasma kallikrein activity is implicated); and methods of treating patients with such compounds.

N-((HET)ARYLMETHYL)-HETEROARYL-CARBOXAMIDES COMPOUNDS AS PLASMA KALLIKREIN INHIBITORS,

This invention relates to enzyme inhibitors that are inhibitors of plasma kallikrein and to pharmaceutical compositions containing and the uses of, such inhibitors.

Background to the Invention

The heterocyclic derivatives of the present invention are inhibitors of plasma kallikrein and have a number of therapeutic applications, particularly in the treatment of retinal vascular permeability associated with diabetic retinopathy and diabetic macular edema.

Plasma kallikrein is a trypsin-like serine protease that can liberate kinins from kininogens (see K. D. Bhoola *et al.*, "Kallikrein-Kinin Cascade", *Encyclopedia of Respiratory Medicine*, p483-493; J. W. Bryant *et al.*, "Human plasma kallikrein-kinin system: physiological and biochemical parameters" *Cardiovascular and haematological agents in medicinal chemistry*, 7, p234-250, 2009; K. D. Bhoola *et al.*, *Pharmacological Rev.*, 1992, **44**, 1; and D. J. Campbell, "Towards understanding the kallikrein-kinin system: insights from the measurement of kinin peptides", *Brazilian Journal of Medical and Biological Research* 2000, **33**, 665-677). It is an essential member of the intrinsic blood coagulation cascade although its role in this cascade does not involve the release of bradykinin or enzymatic cleavage. Plasma prekallikrein is encoded by a single gene and synthesized in the liver. It is secreted by hepatocytes as an inactive plasma prekallikrein that circulates in plasma as a heterodimer complex bound to high molecular weight kininogen which is activated to give the active plasma kallikrein. Kinins are potent mediators of inflammation that act through G protein-coupled receptors and antagonists of kinins (such as bradykinin antagonists) have previously been investigated as potential therapeutic agents for the treatment of a number of disorders (F. Marceau and D. Regoli, Nature Rev., Drug Discovery, 2004, **3**, 845-852).

Plasma kallikrein is thought to play a role in a number of inflammatory disorders. The major inhibitor of plasma kallikrein is the serpin C1 esterase inhibitor. Patients who present with a genetic deficiency in C1 esterase inhibitor suffer from hereditary angioedema (HAE) which results in intermittent swelling of face, hands, throat, gastro-intestinal tract and genitals. Blisters formed during acute episodes contain high levels of plasma kallikrein which cleaves high molecular weight kininogen liberating bradykinin leading to increased vascular permeability. Treatment with a large protein plasma kallikrein inhibitor has been shown to effectively treat HAE by preventing the release of bradykinin which causes increased vascular permeability (A. Lehmann "Ecallantide (DX-88), a plasma kallikrein inhibitor for the treatment of hereditary angioedema and the prevention of blood loss in on-pump cardiothoracic surgery" *Expert Opin. Biol. Ther.* 8, p1187-99).

The plasma kallikrein-kinin system is abnormally abundant in patients with advanced diabetic macular edema. It has been recently published that plasma kallikrein contributes to retinal vascular dysfunctions in diabetic rats (A. Clermont *et al.* "Plasma kallikrein mediates retinal vascular dysfunction and induces retinal thickening in diabetic rats" *Diabetes*, 2011, 60, p1590-98). Furthermore, administration of the plasma kallikrein inhibitor ASP-440 ameliorated both retinal vascular permeability and retinal blood flow abnormalities in diabetic rats. Therefore a plasma kallikrein inhibitor should have utility as a treatment to reduce retinal vascular permeability associated with diabetic retinopathy and diabetic macular edema.

Other complications of diabetes such as cerebral haemorrhage, nephropathy, cardiomyopathy and neuropathy, all of which have associations with plasma kallikrein may also be considered as targets for a plasma kallikrein inhibitor.

Synthetic and small molecule plasma kallikrein inhibitors have been described previously, for example by Garrett et al. ("Peptide aldehyde...." J. Peptide Res. 52, p62-71 (1998)), T. Griesbacher et al. ("Involvement of tissue kallikrein but not plasma kallikrein in the development of symptoms mediated by endogenous kinins in acute pancreatitis in rats" British Journal of Pharmacology 137, p692-700 (2002)), Evans ("Selective dipeptide inhibitors of kallikrein" WO03/076458), Szelke et al. ("Kininogenase inhibitors" WO92/04371), D. M. Evans et al. (Immunolpharmacology, 32, p115-116 (1996)), Szelke et al. ("Kininogen inhibitors" WO95/07921), Antonsson et al. ("New peptides derivatives" WO94/29335), J. Corte et al. ("Six membered heterocycles useful as serine protease inhibitors" WO2005/123680), J. Stürzbecher et al. (Brazilian J. Med. Biol. Res 27, p1929-34 (1994)), Kettner et al. (US 5,187,157), N. Teno et al. (Chem. Pharm. Bull. 41, p1079-1090 (1993)), W. B. Young et al. ("Small molecule inhibitors of plasma kallikrein" Bioorg. Med. Chem. Letts. 16, p2034-2036 (2006)), Okada et al. ("Development of potent and selective plasmin and plasma kallikrein inhibitors and studies on the structure-activity relationship" Chem. Pharm. Bull. 48, p1964-72 (2000)), Steinmetzer et al. ("Trypsin-like serine protease inhibitors and their preparation and use" WO08/049595), Zhang et al. ("Discovery of highly potent small molecule kallikrein inhibitors" Medicinal Chemistry 2, p545-553 (2006)), Sinha et al. ("Inhibitors of plasma kallikrein" WO08/016883), Shigenaga et al. ("Plasma Kallikrein Inhibitors" WO2011/118672), and Kolte et al. ("Biochemical characterization of a novel high-affinity and specific kallikrein inhibitor", British Journal of Pharmacology (2011), 162(7), 1639-1649). Also, Steinmetzer et al. ("Serine protease inhibitors" WO2012/004678) describes cyclized peptide analogs which are inhibitors of human plasmin and plasma kallikrein.

To date, no small molecule synthetic plasma kallikrein inhibitor has been approved for medical use. The molecules described in the known art suffer from limitations such as poor selectivity over related enzymes such as KLK1, thrombin and other serine proteases, and poor oral availability. The large protein plasma kallikrein inhibitors present risks of anaphylactic reactions, as has been reported for Ecallantide. Thus there remains a need for compounds that selectively inhibit plasma kallikrein, that do not induce anaphylaxis and that are orally available. Furthermore, the vast majority of molecules in the known art feature a highly polar and ionisable guanidine or amidine functionality. It is well known that such functionalities may be limiting to gut permeability and therefore to oral availability. For example, it has been reported by Tamie J. Chilcote and Sukanto Sinha ("ASP-634: An Oral Drug Candidate for Diabetic MacularEdema", ARVO 2012 May 6th - May 9th, 2012, Fort Lauderdale, Florida, Presentation 2240) that ASP-440, a benzamidine, suffers from poor oral availability. It is further reported that absorption may be improved by creating a prodrug such as ASP-634. However, it is well known that prodrugs can suffer from several drawbacks, for example, poor chemical stability and potential toxicity from the inert carrier or from unexpected metabolites. In another report, indole amides are claimed as compounds that might overcome problems associated with drugs possessing poor or inadequate ADME-tox and physicochemical properties although no inhibition against plasma kallikrein is presented or claimed (Griffioen et al, "Indole amide derivatives and related compounds for use in the treatment of neurodegenerative diseases", WO2010, 142801).

BioCryst Pharmaceuticals Inc. have reported the discovery of the orally available plasma kallikrein inhibitor BCX4161 ("BCX4161, An Oral Kallikrein Inhibitor: Safety and Pharmacokinetic Results Of a Phase 1 Study In Healthy Volunteers", Journal of Allergy and Clinical Immunology, Volume 133, Issue 2, Supplement, February 2014, page AB39 and "A Simple, Sensitive and Selective Fluorogenic Assay to Monitor Plasma Kallikrein Inhibitory Activity of BCX4161 in Activated Plasma", Journal of Allergy and Clinical Immunology, Volume 133, Issue 2, Supplement February 2014, page AB40). However, human doses are relatively large, currently being tested in proof of concept studies at doses of 400 mg three times daily.

There are only few reports of plasma kallikrein inhibitors that do not feature guanidine or amidine functionalities. One example is Brandl *et al.* ("N-((6-amino-pyridin-3-yl)methyl)-heteroaryl-carboxamides as inhibitors of plasma kallikrein" WO2012/017020), which describes compounds that feature an amino-pyridine functionality. Oral efficacy in a rat model is demonstrated at relatively high doses of 30 mg/kg and 100 mg/kg but the pharmacokinetic profile is not reported. Thus it is not yet known whether such compounds will provide sufficient oral availability or efficacy for progression to the clinic. Other examples are Brandl *et al.* ("Aminopyridine derivatives as plasma kallikrein inhibitors" WO2013/111107)

and Flohr *et al.* ("5-membered heteroarylcarboxamide derivatives as plasma kallikrein inhibitors" WO2013/111108). However, neither of these documents report any *in vivo* data and therefore it is not yet known whether such compounds will provide sufficient oral availability or efficacy for progression to the clinic. Another example is Allen *et al.* "Benzylamine derivatives" WO2014/108679.

Therefore there remains a need to develop new plasma kallikrein inhibitors that will have utility to treat a wide range of disorders, in particular to reduce retinal vascular permeability associated with diabetic retinopathy and diabetic macular edema. Preferred compounds will possess a good pharmacokinetic profile and in particular will be suitable as drugs for oral delivery.

Summary of the Invention

The present invention relates to a series of heterocyclic derivatives that are inhibitors of plasma kallikrein. These compounds demonstrate good selectivity for plasma kallikrein and are potentially useful in the treatment of impaired visual acuity, diabetic retinopathy, macular edema, hereditary angioedema, diabetes, pancreatitis, cerebral haemorrhage, nephropathy, cardiomyopathy, neuropathy, inflammatory bowel disease, arthritis, inflammation, septic shock, hypotension, cancer, adult respiratory distress syndrome, disseminated intravascular coagulation, cardiopulmonary bypass surgery and bleeding from post operative surgery. The invention further relates to pharmaceutical compositions of the inhibitors, to the use of the compositions as therapeutic agents, and to methods of treatment using these compositions.

In a first aspect, the present invention provides compounds of formula I

wherein

B is phenyl substituted with 1 to 4 substituents selected from alkyl^b, alkoxy, OH, halo, CN, heteroaryl, COOR8, NHCOR8, CONR8R9, OCF₃, and CF₃;

or B is selected from benzothiophenyl, benzofuranyl, benzomorpholinyl, and a 5 or 6 membered heterocyclic ring containing one or two heteroatoms selected from N, O and S; wherein said 5 or 6 membered heterocyclic ring may be aromatic or non-aromatic; and wherein said benzothiophenyl, said benzofuranyl, said benzomorpholinyl or said 5 or 6 membered heterocyclic ring is substituted with 1 to 3 substituents selected from alkyl^b, alkoxy, OH, oxo, halo, CN, heteroaryl, COOR8, NHCOR8, CONR8R9, OCF₃ and CF₃;

W is C and X, Y and Z are independently selected from C, N, O and S, such that the ring containing W, X, Y and Z is a five membered aromatic heterocycle;

R5 and R6 are independently absent or independently selected from H, alkyl, cycloalkyl, alkoxy, halo, OH, aryl, heteroaryl, N-linked pyrrolidinyl, N-linked piperidinyl, N-linked morpholinyl, N-linked piperazinyl, -NR8R9, CN, COOR8, CONR8R9, -NR8COR9 and CF₃; wherein at least one of R5 and R6 is present and is not H;

R7 is H;

A is selected from aryl and heteroaryl; wherein aryl is substituted with 1, 2 or 3 substituents independently selected from alkyl, alkoxy, methylenedioxy, ethylenedioxy, OH, halo, CN, heteroaryl, - $(CH_2)_{0-3}$ -O-heteroaryl, aryl^b, - $(CH_2)_{1-3}$ -aryl^b, - $(CH_2)_{1-3}$ -heteroaryl, -COOR10, -CONR10R11, - $(CH_2)_{0-3}$ -NR10R11, OCF₃ and CF₃; and heteroaryl is substituted with 1, 2 or 3 substituents independently selected from alkyl, alkoxy, OH, OCF₃, halo, CN, aryl, - $(CH_2)_{1-3}$ -aryl, - $(CH_2)_{0-3}$ -NR10R11, heteroaryl^b, -COOR10, -CONR10R11 and CF₃;

R8 and R9 are independently selected from H and alkyl;

alkyl is a linear saturated hydrocarbon having up to 10 carbon atoms (C_1 - C_{10}) or a branched saturated hydrocarbon of between 3 and 10 carbon atoms (C_3 - C_{10}); alkyl may optionally be substituted with 1 or 2 substituents independently selected from (C_1 - C_6)alkoxy, OH, CN, CF₃, COOR10, CONR10R11, fluoro and NR10R11;

alkyl^b is a linear saturated hydrocarbon having up to 6 carbon atoms or a branched saturated hydrocarbon of between 3 and 6 carbon atoms (C_{3-6}); alkyl^b may optionally be substituted with 1 or 2 substituents independently selected from (C_{1} - C_{6})alkoxy, OH, CN, CF₃, COOR10, CONR10R11 and fluoro;

cycloalkyl is a monocyclic saturated hydrocarbon of between 3 and 6 carbon atoms;

alkoxy is a linear O-linked hydrocarbon of between 1 and 6 carbon atoms (C_1 - C_6) or a branched O-linked hydrocarbon of between 3 and 6 carbon atoms (C_3 - C_6); alkoxy may optionally be substituted with 1 or 2 substituents independently selected from OH, CN, CF₃, COOR10, CONR10R11, fluoro and NR10R11;

aryl is phenyl, biphenyl or naphthyl; aryl may be optionally substituted with 1, 2 or 3 substituents independently selected from alkyl, alkoxy, methylenedioxy, ethylenedioxy, OH, halo, CN, heteroaryl, - $(CH_2)_{0-3}$ -O-heteroaryl, aryl^b, - $(CH_2)_{1-3}$ -aryl^b, - $(CH_2)_{1-3}$ -heteroaryl, - $(CH_2)_{1-3}$ -heteroaryl, - $(CH_2)_{0-3}$ -NR10R11, OCF₃ and CF₃;

aryl^b is phenyl, biphenyl or naphthyl, which may be optionally substituted with 1, 2 or 3 substituents independently selected from alkyl, alkoxy, OH, halo, CN, -COOR10, -CONR10R11, CF₃ and NR10R11;

heteroaryl is a 5, 6, 9 or 10 membered mono- or bi-cyclic aromatic ring, containing, where possible, 1, 2, 3 or 4 ring members independently selected from N, NR8, S and O; heteroaryl may be optionally substituted with 1, 2 or 3 substituents independently selected from alkyl, alkoxy, OH, OCF₃, halo, CN, aryl, -(CH₂)₁₋₃-aryl, -(CH₂)₀₋₃-NR10R11, heteroaryl^b, -COOR10, -CONR10R11 and CF₃;

heteroaryl^b is a 5, 6, 9 or 10 membered mono- or bi-cyclic aromatic ring, containing, where possible, 1, 2 or 3 ring members independently selected from N, NR8, S and O; wherein heteroaryl^b may be optionally substituted with 1, 2 or 3 substituents independently selected from alkyl, alkoxy, OH, halo, CN, aryl, - $(CH_2)_{1-3}$ -aryl, -COOR10, -CONR10R11, CF₃ and NR10R11;

R10 and R11 are independently selected from H, alkyl, aryl^b and heteroaryl^b or R10 and R11 together with the nitrogen atom to which they are attached form a carbon-containing 4-, 5-, 6- or 7-membered heterocylic ring, optionally containing an additional heteroatom selected from N, S and O, which may be saturated or unsaturated with 1 or 2 double bonds and which may be optionally mono- or di-substituted with substituents selected from oxo, alkyl, alkoxy, OH, halo and CF₃;

and tautomers, isomers, stereoisomers (including enantiomers, diastereoisomers and racemic and scalemic mixtures thereof), pharmaceutically acceptable salts and solvates thereof.

In another aspect the present invention provides a prodrug of a compound of formula (I) as herein defined, or a pharmaceutically acceptable salt thereof.

In yet another aspect the present invention provides an N-oxide of a compound of formula (I) as herein defined, or a prodrug or pharmaceutically acceptable salt thereof.

It will be understood that certain compounds of the present invention may exist in solvated, for example hydrated, as well as unsolvated forms. It is to be understood that the present invention encompasses all such solvated forms.

In a further aspect, also provided are compounds of formula (I), wherein:

B is selected from phenyl, thiophenyl, benzothiophenyl and pyridyl, each substituted with 1 to 3 substituents selected from alkyl^b, alkoxy, halo, CN, COOR8, CONR8R9, OCF₃ and CF₃; wherein alkyl^b, alkoxy, R8 and R9 are as defined above;

W is C and X, Y and Z are independently selected from C and N, such that the ring containing W, X, Y and Z is a five membered aromatic heterocycle;

R5 and R6 are independently absent or independently selected from H, CH₂OCH₃, cycloalkyl, -NR8R9, - NR8COR9 and CF₃; wherein at least one of R5 and R6 is present and is not H;

R7 is H;

A is selected from:

wherein alkyl, cycloalkyl, alkoxy, R8 and R9 are as defined above;

and tautomers, isomers, stereoisomers (including enantiomers, diastereoisomers and racemic and scalemic mixtures thereof), pharmaceutically acceptable salts and solvates thereof.

In a further aspect, also provided are compounds of formula (I), wherein:

B is selected from phenyl and pyridyl, each substituted with 1 to 3 substituents selected from methyl, ethyl, methoxy, ethoxy, CF₃, CN and F;

W is C, X is N and Y and Z are selected from C and N;

R7 is H and R5 and R6 are independently absent or independently selected from H, CH₂OCH₃,cyclopropyl, NH₂ and CF₃; wherein at least one of R5 and R6 is present and is not H.;

A is selected from:

and tautomers, isomers, stereoisomers (including enantiomers, diastereoisomers and racemic and scalemic mixtures thereof), pharmaceutically acceptable salts and solvates thereof.

The aspects of the invention described above may also comprise the following features:

- B is phenyl substituted with 1 to 4 substituents selected from alkyl^b, alkoxy, OH, halo, CN, heteroaryl, COOR8, NHCOR8, CONR8R9, OCF₃, and CF₃; or B is selected from benzothiophenyl, benzofuranyl, benzomorpholinyl, and a 5 or 6 membered heterocyclic ring containing one or two heteroatoms selected from N, O and S; wherein said 5 or 6 membered heterocyclic ring may be aromatic or non-aromatic; and wherein said benzothiophenyl, said benzofuranyl, said benzomorpholinyl or said 5 or 6 membered heterocyclic ring is substituted with 1 to 3 substituents selected from alkyl^b, alkoxy, OH, oxo, halo, CN, heteroaryl, COOR8, NHCOR8, CONR8R9, OCF₃ and CF₃;
- B is phenyl substituted with 1 to 4 substituents selected from alkyl^b, alkoxy, OH, halo, CN, heteroaryl, COOR8, NHCOR8, CONR8R9, OCF₃, and CF₃; or B is selected from benzothiophenyl, benzofuranyl, and a 5 or 6 membered heterocyclic ring containing one or two heteroatoms selected from N, O and S; wherein said 5 or 6 membered heterocyclic ring may be aromatic or non-aromatic; and wherein said benzothiophenyl, said benzofuranyl or said 5 or 6 membered heterocyclic ring is substituted with 1 to 3 substituents selected from alkyl^b, alkoxy, OH, oxo, halo, CN, heteroaryl, COOR8, NHCOR8, CONR8R9, OCF₃ and CF₃; wherein alkyl^b, alkoxy, R8 and R9 are as defined above.
- B is selected from phenyl, pyridyl, pyrimidone, pyrimidine, thiazolyl, isothiazolyl, pyrazolyl, imidazolyl, isoxazolyl, oxazolyl, thiophenyl, benzothiophenyl and furanyl, each substituted, when

possible, with 1 to 3 substituents selected from alkyl^b, alkoxy, OH, oxo, halo, CN, COOR8, CONR8R9, OCF₃ and CF₃; wherein alkyl^b, alkoxy, R8 and R9 are as defined above.

- B is selected from phenyl, pyridyl, pyrimidone, thiazolyl, pyrazolyl, isoxazolyl, thiophenyl, benzothiophenyl and furanyl, each substituted, when possible, with 1 to 3 substituents selected from alkyl^b, alkoxy, OH, oxo, halo, CN, COOR8, CONR8R9, OCF₃ and CF₃; wherein alkyl^b, alkoxy, R8 and R9 are as defined above.
- B is selected from phenyl, thiophenyl, benzothiphenyl and pyridyl, each substituted with 1 to 3 substituents selected from alkyl^b, alkoxy, halo, CN, COOR8, CONR8R9, OCF₃ and CF₃; wherein alkyl^b, alkoxy, R8 and R9 are as defined above.
- B is selected from phenyl and pyridyl, each substituted with 1 to 3 substituents selected from alkyl^b, alkoxy, CN, CF₃ and halo; wherein alkyl^b and alkoxy are as defined above.
- B is selected from phenyl and pyridyl, each substituted with 1 to 3 substituents selected from alkyl^b, alkoxy, CF₃ and halo; wherein alkyl^b and alkoxy are as defined above.
- B is selected from phenyl and pyridyl, each substituted with 1 to 3 substituents selected from methyl, ethyl, methoxy, ethoxy, CF₃, CN and F.
- B is selected from phenyl and pyridyl, each substituted with 1 to 3 substituents selected from methyl, ethyl, methoxy, ethoxy, CF₃, Cl, CHF₂ and F.
- B is selected from phenyl substituted with 1 to 3 substituents selected from methyl, ethyl, methoxy, ethoxy, CN, CF₃, Cl, CHF₂ and F.
- B is selected from phenyl substituted with 1 to 3 substituents selected from methyl, ethyl, methoxy, ethoxy, CF₃, Cl, CHF₂ and F.
- W is C and X, Y and Z are independently selected from C and N, such that the ring containing W, X, Y and Z is a five membered aromatic heterocycle.
- W is C and X, Y and Z are independently selected from C and N, such that the ring containing W, X, Y and Z is selected from pyrrole, pyrazole, imidazole and 1, 2, 3-triazole.
- W is C and X, Y and Z are independently selected from C and N, such that the ring containing W, X, Y and Z is selected from pyrazole and imidazole.
- W is C.
- X is N.
- W is C, X is N and Y and Z are selected from C and N.
- W is C, X is N, Y is N and Z is C.
- W is C, X is N, Y is C and Z is N.

- R5 and R6 are independently absent or independently selected from H, alkyl, cycloalkyl, alkoxy, halo, OH, aryl, heteroaryl, N-linked pyrrolidinyl, N-linked piperidinyl, N-linked morpholinyl, N-linked piperazinyl, -NR8R9, CN, COOR8, CONR8R9, -NR8COR9 and CF₃; wherein at least one of R5 and R6 is present and is not H; wherein alkyl, cycloalkyl, alkoxy, aryl, heteroaryl, R8 and R9 are as defined above.
- R5 and R6 are independently absent or independently selected from H, alkyl, cycloalkyl, -NR8R9, CN,
 -NR8COR9 and CF₃; wherein at least one of R5 and R6 is present and is not H; wherein alkyl,
 cycloalkyl, R8 and R9 are as defined above.
- R5 and R6 are independently absent or independently selected from H, CH₂OCH₃, cycloalkyl, CN, -NR8R9, -NR8COR9 and CF₃; wherein at least one of R5 and R6 is present and is not H; wherein cycloalkyl, R8 and R9 are as defined above.
- R5 and R6 are independently absent or independently selected from H, cycloalkyl, CN,
 -NR8R9, -NR8COR9 and CF₃; wherein at least one of R5 and R6 is present and is not H; wherein cycloalkyl, R8 and R9 are as defined above.
- R5 and R6 are independently absent or independently selected from H, CH₂OCH₃, cycloalkyl, CN, NR8R9 and CF₃; wherein R8 and R9 are H and cycloalkyl is as defined above; and, wherein at least one of R5 and R6 is present and is not H.
- R7 is H.
- R7 is H and R5 and R6 are independently absent or independently selected from H, CH₂OCH₃,
 cyclopropyl, CN, NH₂ and CF₃; wherein at least one of R5 and R6 is present and is not H.
- R7 is H and R5 and R6 are independently absent or independently selected from H,
 CH₂OCH₃,cyclopropyl, NH₂, CN and CF₃; wherein at least one of R5 and R6 is present and is not H.
- R7 is H and R5 and R6 are independently absent or independently selected from H,
 CH₂OCH₃,cyclopropyl, NH₂ and CF₃; wherein at least one of R5 and R6 is present and is not H.
- R7 is H, R6 is absent and R5 is selected from CH₂OCH₃, cyclopropyl, NH₂ and CF₃.
- R7 is H, R6 is absent and R5 is CH₂OCH₃.
- W is C, X is N, Y and Z are selected from C and N, R7 is H and R5 and R6 are independently absent or independently selected from H, CH₂OCH₃, cycloalkyl, NR8R9 and CF₃; wherein R8 and R9 are H and cycloalkyl is as defined above.

• W is C, X is N, Y is N, Z is C, R7 is H, R6 is absent and R5 is selected from CH_2OCH_3 , cyclopropyl, NH_2 and CF_3 .

- A is selected from aryl and heteroaryl, each substituted as specified above.
- A is phenyl, pyridyl, thiophenyl or quinolinyl, each substituted with 1, 2 or 3 substituents independently selected from alkyl, alkoxy, halo, CN, aryl^b, -(CH₂)₁₋₃-aryl^b, -(CH₂)₁₋₃-heteroaryl, -(CH_z)₀₋₃-NR10R11 and CF₃; wherein alkyl, alkoxy, heteroaryl, aryl^b, R10 and R11 are as defined above.
- A is phenyl or pyridyl, each substituted with 1, 2 or 3 substituents independently selected from alkyl, alkoxy, halo, -(CH₂)₁₋₃-aryl^b, -(CH₂)₁₋₃-heteroaryl, CF₃ and -(CH₂)₀₋₃-NR10R11; wherein alkyl, alkoxy, heteroaryl, aryl^b, R10 and R11 are as defined above.
- A is pyridyl substituted with 1, 2 or 3 substituents independently selected from alkyl, halo, heteroaryl^b, CF₃ and -NR10R11; wherein alkyl, heteroaryl^b, R10 and R11 are as defined above.
- A is pyridyl substituted with heteroaryl^b or -NR10R11 and, optionally, 1 or 2 additional substituents independently selected from alkyl, halo and CF₃; wherein alkyl, heteroaryl^b, R10 and R11 are as defined above.
- A is phenyl substituted with 1, 2 or 3 substituents independently selected from alkyl, halo,
 -(CH₂)₁₋₃-heteroaryl, CF₃ and -(CH₂)₁₋₃-NR10R11; wherein alkyl, heteroaryl, R10 and R11 are as defined above.
- A is phenyl substituted with -(CH₂)₁₋₃-heteroaryl or -(CH₂)₁₋₃-NR10R11 and, optionally, 1 or 2 additional substituents independently selected from alkyl, halo and CF₃; wherein alkyl, heteroaryl, R10 and R11 are as defined above.
- A is selected from:

A is selected from:

• A is selected from:

• A is selected from:

A is:

A is:

- R8 and R9 are independently selected from H and alkyl; wherein alkyl is defined above.
- R8 and R9 are independently selected from H and methyl, ethyl, n-propyl and isopropyl.
- R8 and R9 are independently selected from H and methyl.
- R10 and R11 are independently selected from H, alkyl, aryl^b and heteroaryl^b or R10 and R11 together with the nitrogen atom to which they are attached form a carbon-containing 4-, 5-, 6- or 7-membered heterocylic ring, optionally containing an additional heteroatom selected from N, S and O, which may be saturated or unsaturated with 1 or 2 double bonds and which may be optionally mono- or di-substituted with substituents selected from oxo, alkyl, alkoxy, OH, halo and CF₃; wherein alkyl, alkoxy, aryl^b and heteroaryl^b are as defined above.
- R10 and R11 are independently selected from H and alkyl or R10 and R11 together with the nitrogen atom to which they are attached form a carbon-containing 5- or 6-membered heterocylic ring, optionally containing an addition N atom, which may be saturated or unsaturated with 1 or 2 double bonds and which may be optionally mono- or di-substituted with substituents selected from oxo, alkyl, alkoxy, OH, Cl, F and CF₃; wherein alkyl and alkoxy are as defined above.
- R10 and R11 are independently selected from H and alkyl or R10 and R11 together with the nitrogen atom to which they are attached form a 5- or 6-membered carbon containing heterocylic ring, optionally containing an addition N atom, which may be saturated or unsaturated with 1 or 2 double bonds, and optionally mono- or di-substituted with substituents selected from oxo, methyl, Cl and F; wherein alkyl is as defined above.
- R10 and R11 together with the nitrogen atom to which they are attached form a 5- or 6-membered
 carbon containing heterocylic ring, optionally containing an addition N atom, which may be
 saturated or unsaturated with 1 or 2 double bonds, and optionally mono- or di-substituted with
 substituents selected from oxo, methyl, Cl and F.
- R10 and R11 together with the nitrogen atom to which they are attached form a 6-membered carbon containing heterocylic ring, optionally containing an addition N atom, which may be saturated or unsaturated with 1 or 2 double bonds, and optionally may be oxo substituted.

- R10 and R11 together with the nitrogen atom to which they are attached form a carbon-containing
 5- or 6-membered saturated heterocylic ring.
- R10 and R11 are independently selected from H and alkyl^b; wherein alkyl^b is as defined above.

The present invention also encompasses, but is not limited to, the compounds listed below:

N-(3,5-Dimethoxybenzyl)-3-(methoxymethyl)-1-(4-((2-oxopyridin-1(2H)-yl)methyl)benzyl)-1H-pyrazole-4-carboxamide;

3-Amino-1-[4-(2-oxo-2H-pyridin-1-ylmethyl)-benzyl]-1H-pyrazole-4-carboxylic acid 2-fluoro-3-methoxy-benzylamide;

1-(7-Chloro-quinolin-3-ylmethyl)-3-methoxymethyl-1H-pyrazole-4-carboxylic acid 2-fluoro-3-methoxy-benzylamide;

N-[(2-fluoro-3-methoxyphenyl)methyl]-1-({4-[(4-methylpyrazol-1-yl)methyl]phenyl}methyl)-3-(trifluoromethyl)pyrazole-4-carboxamide;

N-[(3-methoxyphenyl)methyl]-1-({4-[(4-methylpyrazol-1-yl)methyl]phenyl}methyl)-3-(trifluoromethyl)pyrazole-4-carboxamide;

N-[(3-ethoxyphenyl)methyl]-1-({4-[(4-methylpyrazol-1-yl)methyl]phenyl}methyl)-3-(trifluoromethyl)pyrazole-4-carboxamide;

1-({4-[(4-methylpyrazol-1-yl)methyl]phenyl}methyl)-N-{[3-(trifluoromethoxy)phenyl]methyl}-3-(trifluoromethyl)pyrazole-4-carboxamide;

N-[(4-methylphenyl)methyl]-1-({4-[(4-methylpyrazol-1-yl)methyl]phenyl}methyl)-3-(trifluoromethyl)pyrazole-4-carboxamide;

N-[(2-fluoro-5-methoxyphenyl)methyl]-1-((4-[(4-methylpyrazol-1-yl)methyl]phenyl}methyl)-3-(trifluoromethyl)pyrazole-4-carboxamide;

N-[(2,4-dimethoxyphenyl)methyl]-1-({4-[(4-methylpyrazol-1-yl)methyl]phenyl}methyl)-3-(trifluoromethyl)pyrazole-4-carboxamide;

N-[(2,6-difluoro-4-methoxyphenyl)methyl]-1-({4-[(4-methylpyrazol-1-yl)methyl]phenyl}methyl)-3-(trifluoromethyl)pyrazole-4-carboxamide;

N-{[4-methoxy-2-(trifluoromethyl)phenyl]methyl}-1-({4-[(4-methylpyrazol-1-yl)methyl]phenyl}methyl)-3-(trifluoromethyl)pyrazole-4-carboxamide;

N-[(2,6-difluorophenyl)methyl]-1-((4-[(4-methylpyrazol-1-yl)methyl]phenyl}methyl)-3-(trifluoromethyl)pyrazole-4-carboxamide;

N-[(2-chloro-6-fluorophenyl)methyl]-1-({4-[(4-methylpyrazol-1-yl)methyl]phenyl}methyl)-3-(trifluoromethyl)pyrazole-4-carboxamide;

N-{[2-fluoro-6-(trifluoromethyl)phenyl]methyl}-1-({4-[(4-methylpyrazol-1-yl)methyl]phenyl}methyl)-3-(trifluoromethyl)pyrazole-4-carboxamide;

N-[(4-chloro-2,6-difluorophenyl)methyl]-1-({4-[(4-methylpyrazol-1-yl)methyl]phenyl}methyl)-3-(trifluoromethyl)pyrazole-4-carboxamide;

N-[(4-chloro-2-fluorophenyl)methyl]-1-((4-[(4-methylpyrazol-1-yl)methyl]phenyl}methyl)-3-(trifluoromethyl)pyrazole-4-carboxamide;

N-[(3-chloro-2,6-difluorophenyl)methyl]-1-({4-[(4-methylpyrazol-1-yl)methyl]phenyl}methyl)-3-(trifluoromethyl)pyrazole-4-carboxamide;

N-[(3-chloro-2-fluorophenyl)methyl]-1-({4-[(4-methylpyrazol-1-yl)methyl]phenyl}methyl)-3-(trifluoromethyl)pyrazole-4-carboxamide;

N-[(5-chloro-2-fluorophenyl)methyl]-1-((4-[(4-methylpyrazol-1-yl)methyl]phenyl}methyl)-3-(trifluoromethyl)pyrazole-4-carboxamide;

N-{[3-chloro-2-fluoro-6-(trifluoromethyl)phenyl]methyl}-1-({4-[(4-methylpyrazol-1-yl)methyl]phenyl}methyl)-3-(trifluoromethyl)pyrazole-4-carboxamide;

N-[(2,6-dichlorophenyl)methyl]-1-({4-[(4-methylpyrazol-1-yl)methyl]phenyl}methyl)-3-(trifluoromethyl)pyrazole-4-carboxamide;

N-{[5-chloro-2-(trifluoromethyl)phenyl]methyl}-1-({4-[(4-methylpyrazol-1-yl)methyl]phenyl}methyl)-3-(trifluoromethyl)pyrazole-4-carboxamide;

N-[(2,4-dimethylphenyl)methyl]-1-({4-[(4-methylpyrazol-1-yl)methyl]phenyl}methyl)-3-(trifluoromethyl)pyrazole-4-carboxamide;

N-[(2,6-dimethylphenyl)methyl]-1-({4-[(4-methylpyrazol-1-yl)methyl]phenyl}methyl)-3-(trifluoromethyl)pyrazole-4-carboxamide;

1-({4-[(4-methylpyrazol-1-yl)methyl]phenyl}methyl)-3-(trifluoromethyl)-N-[(2,4,6-trimethylphenyl)methyl]pyrazole-4-carboxamide;

N-[(3-fluoro-2-methylphenyl)methyl]-1-({4-[(4-methylpyrazol-1-yl)methyl]phenyl}methyl)-3-(trifluoromethyl)pyrazole-4-carboxamide;

N-[(2-fluoro-4-methylphenyl)methyl]-1-({4-[(4-methylpyrazol-1-yl)methyl]phenyl}methyl)-3-(trifluoromethyl)pyrazole-4-carboxamide;

N-[(3-fluoropyridin-2-yl)methyl]-1-({4-[(4-methylpyrazol-1-yl)methyl]phenyl}methyl)-3-(trifluoromethyl)pyrazole-4-carboxamide;

N-[(4-chloropyridin-2-yl)methyl]-1-({4-[(4-methylpyrazol-1-yl)methyl]phenyl}methyl)-3-(trifluoromethyl)pyrazole-4-carboxamide;

3-(methoxymethyl)-1-({4-[(2-oxopyridin-1-yl)methyl]phenyl}methyl)-N-{[4-(trifluoromethyl)pyridin-3-yl]methyl}pyrazole-4-carboxamide;

3-(methoxymethyl)-N-[(6-methylpyridin-3-yl)methyl]-1-({4-[(2-oxopyridin-1-yl)methyl]phenyl}methyl)pyrazole-4-carboxamide;

N-[(4-fluoro-5-methoxypyridin-3-yl)methyl]-3-(methoxymethyl)-1-({4-[(2-oxopyridin-1-yl)methyl]phenyl}methyl)pyrazole-4-carboxamide;

N-[(4-acetamidopyridin-3-yl)methyl]-3-(methoxymethyl)-1-({4-[(2-oxopyridin-1-yl)methyl]phenyl}methyl)pyrazole-4-carboxamide;

N-{[4-fluoro-2-(trifluoromethyl)pyridin-3-yl]methyl}-3-(methoxymethyl)-1-({4-[(2-oxopyridin-1-yl)methyl]phenyl}methyl)pyrazole-4-carboxamide;

3-(methoxymethyl)-1-({4-[(2-oxopyridin-1-yl)methyl]phenyl}methyl)-N-{[2-(trifluoromethyl)pyridin-3-yl]methyl}pyrazole-4-carboxamide;

3-(methoxymethyl)-1-{{4-[(2-oxopyridin-1-yl)methyl]phenyl}methyl)-N-{[4-(trifluoromethyl)pyridin-3-yl]methyl}pyrazole-4-carboxamide;

N-[(4-fluoropyridin-3-yl)methyl]-3-(methoxymethyl)-1-({4-[(2-oxopyridin-1-yl)methyl]phenyl}methyl)pyrazole-4-carboxamide;

3-(methoxymethyl)-N-[(6-methylpyridin-3-yl)methyl]-1-({4-[(2-oxopyridin-1-yl)methyl]phenyl}methyl)pyrazole-4-carboxamide;

3-(methoxymethyl)-N-[(6-methoxypyridin-2-yl)methyl]-1-({4-[(2-oxopyridin-1-yl)methyl]phenyl}methyl)pyrazole-4-carboxamide;

N-[(3-fluoro-4-methoxypyridin-2-yl)methyl]-3-(methoxymethyl)-1-({4-[(2-oxopyridin-1-yl)methyl]phenyl}methyl)pyrazole-4-carboxamide;

N-[(3-fluoro-6-methoxypyridin-2-yl)methyl]-3-(methoxymethyl)-1-({4-[(2-oxopyridin-1-yl)methyl]phenyl}methyl)pyrazole-4-carboxamide;

N-[(3-chlorothiophen-2-yl)methyl]-3-(methoxymethyl)-1-({4-[(2-oxopyridin-1-yl)methyl]phenyl}methyl)pyrazole-4-carboxamide;

N-[(3-chloro-5-methylthiophen-2-yl)methyl]-3-(methoxymethyl)-1-({4-[(2-oxopyridin-1-yl)methyl]phenyl}methyl)pyrazole-4-carboxamide;

N-[(5-chloro-1-benzothiophen-3-yl)methyl]-3-(methoxymethyl)-1-({4-[(2-oxopyridin-1-yl)methyl]phenyl}methyl)pyrazole-4-carboxamide;

N-[(5-chloro-1-benzothiophen-3-yl)methyl]-3-(methoxymethyl)-1-{[6-(pyrrolidin-1-yl)pyridin-3-yl]methyl}pyrazole-4-carboxamide;

N-[(5-chloro-1-benzothiophen-3-yl)methyl]-3-(methoxymethyl)-1-({4-[(4-methylpyrazol-1-yl)methyl]phenyl}methyl)pyrazole-4-carboxamide;

N-[(2-carbamoylphenyl)methyl]-3-cyclopropyl-1-{{4-[(2-oxopyridin-1-yl)methyl]phenyl}methyl)pyrazole-4-carboxamide;

N-[(3-carbamoylphenyl)methyl]-3-cyclopropyl-1-({4-[(2-oxopyridin-1-yl)methyl]phenyl}methyl)pyrazole-4-carboxamide;

N-[(4-carbamoylphenyl)methyl]-3-cyclopropyl-1-({4-[(2-oxopyridin-1-yl)methyl]phenyl}methyl)pyrazole-4-carboxamide;

N-{[2-fluoro-6-(trifluoromethyl)phenyl]methyl}-1-({4-[(2-oxopyridin-1-yl)methyl]phenyl}methyl)-3-(trifluoromethyl)pyrazole-4-carboxamide;

3-cyclopropyl-N-[(2-fluoro-3-methoxyphenyl)methyl]-1-({4-[(2-oxopyridin-1-yl)methyl]phenyl}methyl)pyrazole-4-carboxamide;

N-[(2-fluoro-3-methoxyphenyl)methyl]-3-(methoxymethyl)-1-({4-[(2-oxopyridin-1-yl)methyl]phenyl}methyl)pyrazole-4-carboxamide;

N-[(2-fluoro-3,6-dimethoxyphenyl)methyl]-3-(methoxymethyl)-1-({4-[(2-oxopyridin-1-yl)methyl]phenyl}methyl)pyrazole-4-carboxamide;

N-[(2-fluoro-3-methoxyphenyl)methyl]-3-(methylamino)-1-({4-[(2-oxopyridin-1-yl)methyl]phenyl}methyl)pyrazole-4-carboxamide;

3-(ethylamino)-N-[(2-fluoro-3-methoxyphenyl)methyl]-1-({4-[(2-oxopyridin-1-yl)methyl]phenyl}methyl)pyrazole-4-carboxamide;

N-[(2-fluoro-3-methoxyphenyl)methyl]-3-(isopropylamino)-1-({4-[(2-oxopyridin-1-yl)methyl]phenyl}methyl)pyrazole-4-carboxamide;

3-amino-1-({4-[(2-oxopyridin-1-yl)methyl]phenyl}methyl)-N-{[4-(trifluoromethoxy)phenyl]methyl}pyrazole-4-carboxamide;

3-(dimethylamino)-N-[(2-fluoro-3-methoxyphenyl)methyl]-1-({4-[(2-oxopyridin-1-yl)methyl]phenyl}methyl)pyrazole-4-carboxamide;

3-amino-N-[(2,6-difluoro-3-methoxyphenyl)methyl]-1-({4-[(2-oxopyridin-1-yl)methyl]phenyl}methyl)pyrazole-4-carboxamide;

N-[(2,6-difluoro-3-methoxyphenyl)methyl]-3-(methylamino)-1-({4-[(2-oxopyridin-1-yl)methyl]phenyl}methyl)pyrazole-4-carboxamide;

N-[(2-fluorophenyl)methyl]-3-(methoxymethyl)-1-({4-[(2-oxopyridin-1-yl)methyl]phenyl}methyl)pyrazole-4-carboxamide;

3-(methoxymethyl)-1-{{4-[(2-oxopyridin-1-yl)methyl]phenyl}methyl)-N-{[2-(trifluoromethyl)phenyl]methyl}pyrazole-4-carboxamide;

N-[(2-fluoro-5-methoxyphenyl)methyl]-3-(methoxymethyl)-1-({4-[(2-oxopyridin-1-yl)methyl]phenyl}methyl)pyrazole-4-carboxamide;

N-[(2-fluoro-4-methylphenyl)methyl]-3-(methoxymethyl)-1-({4-[(2-oxopyridin-1-yl)methyl]phenyl}methyl)pyrazole-4-carboxamide;

N-[(2,6-difluoro-3-methoxyphenyl)methyl]-3-(methoxymethyl)-1-({4-[(2-oxopyridin-1-yl)methyl]phenyl}methyl)pyrazole-4-carboxamide;

N-[(3-chloro-5-methoxyphenyl)methyl]-3-(methoxymethyl)-1-({4-[(2-oxopyridin-1-yl)methyl]phenyl}methyl)pyrazole-4-carboxamide;

N-{[2-(difluoromethyl)phenyl]methyl}-3-(methoxymethyl)-1-({4-[(2-oxopyridin-1-yl)methyl]phenyl}methyl)pyrazole-4-carboxamide;

N-{[2-(difluoromethyl)-3-methoxyphenyl]methyl}-3-(methoxymethyl)-1-({4-[(2-oxopyridin-1-yl)methyl]phenyl}methyl)pyrazole-4-carboxamide;

3-amino-N-{[2-fluoro-6-(trifluoromethyl)phenyl]methyl}-1-({4-[(2-oxopyridin-1-yl)methyl]phenyl}methyl)pyrazole-4-carboxamide;

3-acetamido-N-[(2-fluoro-3-methoxyphenyl)methyl]-1-({4-[(2-oxopyridin-1-yl)methyl]phenyl}methyl)pyrazole-4-carboxamide;

N-[(2-fluoro-3-methoxyphenyl)methyl]-3-(N-methylacetamido)-1-({4-[(2-oxopyridin-1-yl)methyl]phenyl}methyl)pyrazole-4-carboxamide;

N-[(3-chloro-2,6-difluorophenyl)methyl]-3-(methoxymethyl)-1-({4-[(2-oxopyridin-1-yl)methyl]phenyl}methyl)pyrazole-4-carboxamide;

N-[(2-fluoro-3-methoxy-4-methylphenyl)methyl]-3-(methoxymethyl)-1-({4-[(2-oxopyridin-1-yl)methyl]phenyl}methyl)pyrazole-4-carboxamide;

N-{(2-cyano-5-methoxyphenyl)methyl]-3-(methoxymethyl)-1-({4-{(2-oxopyridin-1-yl)methyl]phenyl}methyl)pyrazole-4-carboxamide;

N-[(5-chloro-2-cyanophenyl)methyl]-3-(methoxymethyl)-1-({4-[(2-oxopyridin-1-yl)methyl]phenyl}methyl)pyrazole-4-carboxamide;

N-[(6-cyano-2-fluoro-3-methoxyphenyl)methyl]-3-(methoxymethyl)-1-({4-[(2-oxopyridin-1-yl)methyl]phenyl}methyl)pyrazole-4-carboxamide;

N-{[3-methoxy-2-(trifluoromethyl)phenyl]methyl}-3-(methoxymethyl)-1-({4-[(2-oxopyridin-1-yl)methyl]phenyl}methyl)pyrazole-4-carboxamide;

N-{[5-methoxy-2-(trifluoromethyl)phenyl]methyl}-3-(methoxymethyl)-1-({4-[(2-oxopyridin-1-yl)methyl]phenyl}methyl)pyrazole-4-carboxamide;

 $N-\{[2-(difluoromethyl)-6-fluorophenyl]methyl\}-3-(methoxymethyl)-1-\{\{4-[(2-oxopyridin-1-yl)methyl]phenyl\}methyl)pyrazole-4-carboxamide;$

N-{[2-(difluoromethyl)-5-methoxyphenyl]methyl}-3-(methoxymethyl)-1-({4-[(2-oxopyridin-1-yl)methyl]phenyl}methyl)pyrazole-4-carboxamide;

N-{[6-(difluoromethyl)-2-fluoro-3-methoxyphenyl]methyl}-3-(methoxymethyl)-1-{{4-[(2-oxopyridin-1-yl)methyl]phenyl}methyl)pyrazole-4-carboxamide;

N-{[2-(difluoromethyl)-6-fluoro-3-methoxyphenyl]methyl}-3-(methoxymethyl)-1-({4-[(2-oxopyridin-1-yl)methyl]phenyl}methyl)pyrazole-4-carboxamide;

N-[(2-chloro-5-methoxyphenyl)methyl]-3-(methoxymethyl)-1-({4-[(2-oxopyridin-1-yl)methyl]phenyl}methyl)pyrazole-4-carboxamide;

N-[(2-carbamoyl-6-fluorophenyl)methyl]-3-(methoxymethyl)-1-({4-[(2-oxopyridin-1-yl)methyl]phenyl}methyl)pyrazole-4-carboxamide;

N-[(2-carbamoyl-5-methoxyphenyl)methyl]-3-(methoxymethyl)-1-({4-[(2-oxopyridin-1-yl)methyl]phenyl}methyl)pyrazole-4-carboxamide;

2-({[3-(methoxymethyl)-1-({4-[(2-oxopyridin-1-yl)methyl]phenyl}methyl)pyrazol-4-yl|formamido}methyl)benzoic acid

N-{[2-fluoro-6-(1,2,3,4-tetrazol-1-yl)phenyl]methyl}-3-(methoxymethyl)-1-({4-[(2-oxopyridin-1-yl)methyl]phenyl}methyl)pyrazole-4-carboxamide;

N-{[2-fluoro-5-(1,2,3,4-tetrazol-1-yl)phenyl]methyl}-3-(methoxymethyl)-1-({4-[(2-oxopyridin-1-yl)methyl]phenyl}methyl)pyrazole-4-carboxamide;

N-{[3-(difluoromethoxy)-2-fluorophenyl]methyl}-3-(methoxymethyl)-1-({4-[(2-oxopyridin-1-yl)methyl]phenyl}methyl)pyrazole-4-carboxamide;

N-{[3-(difluoromethoxy)phenyl]methyl}-3-(methoxymethyl)-1-{{4-[(2-oxopyridin-1-yl)methyl]phenyl}methyl)pyrazole-4-carboxamide;

N-{[2-(difluoromethoxy)-6-fluorophenyl]methyl}-3-(methoxymethyl)-1-({4-[(2-oxopyridin-1-yl)methyl]phenyl}methyl)pyrazole-4-carboxamide;

N-{[2-(difluoromethyl)-6-fluoro-4-methylphenyl]methyl}-3-(methoxymethyl)-1-({4-[(2-oxopyridin-1-yl)methyl]phenyl}methyl)pyrazole-4-carboxamide;

N-[(2,5-difluorophenyl)methyl]-3-(methoxymethyl)-1-({4-[(2-oxopyridin-1-yl)methyl]phenyl}methyl)pyrazole-4-carboxamide;

N-[(3-fluoro-5-methoxyphenyl)methyl]-3-(methoxymethyl)-1-({4-[(2-oxopyridin-1-yl)methyl]phenyl}methyl)pyrazole-4-carboxamide;

N-[(2,5-difluoro-3-methoxyphenyl)methyl]-3-(methoxymethyl)-1-({4-[(2-oxopyridin-1-yl)methyl]phenyl}methyl)pyrazole-4-carboxamide;

N-[(2-fluoro-6-methylphenyl)methyl]-3-(methoxymethyl)-1-({4-[(2-oxopyridin-1-yl)methyl]phenyl}methyl)pyrazole-4-carboxamide;

N-[(5-chloro-2-fluoro-3-methoxyphenyl)methyl]-3-(methoxymethyl)-1-({4-[(2-oxopyridin-1-yl)methyl]phenyl}methyl)pyrazole-4-carboxamide;

N-[(6-chloro-2-fluoro-3-methoxyphenyl)methyl]-3-(methoxymethyl)-1-({4-[(2-oxopyridin-1-yl)methyl]phenyl}methyl)pyrazole-4-carboxamide;

N-{[2-fluoro-3-methoxy-6-(trifluoromethyl)phenyl]methyl}-3-(methoxymethyl)-1-({4-[(2-oxopyridin-1-yl)methyl]phenyl}methyl)pyrazole-4-carboxamide;

N-{[2-fluoro-4-methyl-6-(trifluoromethyl)phenyl]methyl}-3-(methoxymethyl)-1-{{4-[(2-oxopyridin-1-yl)methyl]phenyl}methyl)pyrazole-4-carboxamide;

N-{[4-chloro-2-fluoro-6-(trifluoromethyl)phenyl]methyl}-3-(methoxymethyl)-1-({4-[(2-oxopyridin-1-yl)methyl]phenyl}methyl)pyrazole-4-carboxamide;

3-cyano-N-[(2-fluoro-3-methoxyphenyl)methyl]-1-({4-[(2-oxopyridin-1-yl)methyl]phenyl}methyl)pyrazole-4-carboxamide;

N-[(2-fluoro-3-hydroxyphenyl)methyl]-3-(methoxymethyl)-1-({4-[(2-oxopyridin-1-yl)methyl]phenyl}methyl)pyrazole-4-carboxamide;

3-amino-N-[(2-fluoro-3-hydroxyphenyl)methyl]-1-((4-[(2-oxopyridin-1-yl)methyl]phenyl)methyl)pyrazole-4-carboxamide;

methyl 2-({[3-(methoxymethyl)-1-({4-[(2-oxopyridin-1-yl)methyl]phenyl}methyl)pyrazol-4-yl]formamido}methyl)benzoate

N-[(3-ethyl-2-fluorophenyl)methyl]-3-(methoxymethyl)-1-({4-[(2-oxopyridin-1-yl)methyl]phenyl}methyl)pyrazole-4-carboxamide;

3-(methoxymethyl)-N-[(3-methoxyphenyl)methyl]-1-({4-[(2-oxopyridin-1-yl)methyl]phenyl}methyl)pyrazole-4-carboxamide;

N-[(2-fluoro-3-methoxyphenyl)methyl]-3-(methoxymethyl)-1-({4-[(2-oxopyrazin-1-yl)methyl]phenyl}methyl)pyrazole-4-carboxamide;

N-[(2,6-difluoro-3-methoxyphenyl)methyl]-1-((4-[(4-fluoro-2-oxopyridin-1-yl)methyl]phenyl}methyl)-3-(methoxymethyl)pyrazole-4-carboxamide;

N-[(2,6-difluoro-3-methoxyphenyl)methyl]-3-(methoxymethyl)-1-({4-[(4-methyl-2-oxopyridin-1-yl)methyl]phenyl}methyl)pyrazole-4-carboxamide;

1-({4-[(5-fluoro-2-oxopyridin-1-yl)methyl]phenyl}methyl)-N-[(2-fluoro-3-methoxyphenyl)methyl]-3-(methoxymethyl)pyrazole-4-carboxamide;

N-[(2,6-difluoro-3-methoxyphenyl)methyl]-1-([4-[(5-fluoro-2-oxopyridin-1-yl)methyl]phenyl]methyl)-3-(methoxymethyl)pyrazole-4-carboxamide;

N-[(2,6-difluoro-3-methoxyphenyl)methyl]-1-({4-[(4-ethoxy-2-oxopyridin-1-yl)methyl]phenyl}methyl)-3-(methoxymethyl)pyrazole-4-carboxamide;

N-[(2-fluoro-3-methoxyphenyl)methyl]-1-({4-[(5-methoxy-4-methyl)pyrazol-1-yl)methyl]phenyl}methyl)-3-(methoxymethyl)pyrazole-4-carboxamide;

N-[(2-fluoro-3-methoxyphenyl)methyl]-3-(methoxymethyl)-1-[[5-(2-oxopyridin-1-yl)thiophen-3-yl]methyl]pyrazole-4-carboxamide;

N-[(2-fluoro-3-methoxyphenyl)methyl]-3-(methoxymethyl)-1-({5-[(2-oxopyridin-1-yl)methyl]thiophen-3-yl}methyl)pyrazole-4-carboxamide;

3-amino-N-[(2-fluoro-3-methoxyphenyl)methyl]-1-({4-[(4-methylpyrazol-1-yl)methyl]phenyl}methyl)pyrazole-4-carboxamide;

3-methoxymethyl-1-[4-(4-methyl-pyrazol-1-ylmethyl)-benzyl]-1H-pyrazole-4-carboxylic acid 6-cyano-2-fluoro-3-methoxy-benzylamide;

3-methoxymethyl-1-(2-pyrrolidin-1-yl-pyrimidin-5-ylmethyl)-1H-pyrazole-4-carboxylic acid 6-cyano-2-fluoro-3-methoxy-benzylamide;

1-(2-pyrrolidin-1-yl-pyrimidin-5-ylmethyl)-3-trifluoromethyl-1H-pyrazole-4-carboxylic acid 6-cyano-2-fluoro-3-methoxy-benzylamide;

N-[(2-fluoro-3-methoxyphenyl)methyl]-1-({4-[(2-fluoro-6-oxopyridin-1-yl)methyl]phenyl}methyl)-3-(methoxymethyl)pyrazole-4-carboxamide;

1-({4-[(2-chloro-6-oxopyridin-1-yl)methyl]phenyl}methyl)-N-[(2-fluoro-3-methoxyphenyl)methyl]-3-(methoxymethyl)pyrazole-4-carboxamide;

N-[(2,6-difluoro-3-methoxyphenyl)methyl]-3-(methoxymethyl)-1-({2-[(methylamino)methyl]phenyl}methyl)pyrazole-4-carboxamide;

N-[(2,6-difluoro-3-methoxyphenyl)methyl]-3-(methoxymethyl)-1-[[2-(methylamino)pyridin-4-yl]methyl]pyrazole-4-carboxamide;

N-[(2-fluoro-3-methoxyphenyl)methyl]-3-(methoxymethyl)-1-[[2-(2,2,2-trifluoroethyl)phenyl]methyl)pyrazole-4-carboxamide;

N-[(2-fluoro-3-methoxyphenyl)methyl]-3-(methoxymethyl)-1-{[2-(trifluoromethoxy)phenyl]methyl}pyrazole-4-carboxamide;

N-[(2-fluoro-3-methoxyphenyl)methyl]-2-methyl-1-({4-[(2-oxopyridin-1-yl)methyl]phenyl}methyl)imidazole-4-carboxamide;

2-amino-N-[(2-fluoro-3-methoxyphenyl)methyl]-1-({4-[(2-oxopyridin-1-yl)methyl]phenyl}methyl)imidazole-4-carboxamide;

2-cyclopropyl-N-[(2-fluoro-3-methoxyphenyl)methyl]-1-({4-[(2-oxopyridin-1-yl)methyl]phenyl}methyl)imidazole-4-carboxamide;

N-[(2-fluoro-3-methoxyphenyl)methyl]-1-({4-[(2-oxopyridin-1-yl)methyl]phenyl}methyl)-2-(trifluoromethyl)imidazole-4-carboxamide;

N-[(2-fluoro-3-methoxyphenyl)methyl]-2-(methoxymethyl)-1-({4-[(2-oxopyridin-1-yl)methyl]phenyl}methyl)imidazole-4-carboxamide;

N-[(2-fluoro-3-methoxyphenyl)methyl]-1-[[6-(pyrrolidin-1-yl)pyridin-3-yl]methyl}-3-(trifluoromethyl)pyrazole-4-carboxamide;

3-amino-N-[(2-fluoro-3-methoxyphenyl)methyl]-1-{[6-(pyrrolidin-1-yl)pyridin-3-yl]methyl}pyrazole-4-carboxamide;

N-[(2-fluoro-3-methoxyphenyl)methyl]-3-(methoxymethyl)-1-{[6-(pyrrolidin-1-yl)pyridin-3-yl]methyl}pyrazole-4-carboxamide;

3-methoxymethyl-1-(6-pyrrolidin-1-yl-pyridin-3-ylmethyl)-1H-pyrazole-4-carboxylic acid 6-cyano-2-fluoro-3-methoxy-benzylamide;

1-(6-pyrrolidin-1-yl-pyridin-3-ylmethyl)-3-trifluoromethyl-1H-pyrazole-4-carboxylic acid 6-cyano-2-fluoro-3-methoxy-benzylamide;

3-amino-N-[(7-chloro-4-methyl-2,3-dihydro-1,4-benzoxazin-2-yl)methyl]-1-({4-[(2-oxopyridin-1-yl)methyl]phenyl}methyl)pyrazole-4-carboxamide;

3-amino-N-[(7-chloro-3,4-dihydro-2H-1,4-benzoxazin-2-yl)methyl]-1-({4-[(2-oxopyridin-1-yl)methyl]phenyl}methyl)pyrazole-4-carboxamide

and pharmaceutically acceptable salts and solvates thereof.

The present invention also encompasses, but is not limited to, the compounds listed below:

3-Amino-1-[4-(2-oxo-2H-pyridin-1-ylmethyl)-benzyl]-1H-pyrazole-4-carboxylic acid 2-fluoro-3-methoxy-benzylamide;

N-[(2-fluoro-3-methoxyphenyl)methyl]-1-({4-[(4-methylpyrazol-1-yl)methyl]phenyl}methyl)-3-(trifluoromethyl)pyrazole-4-carboxamide;

N-[(2-fluoro-5-methoxyphenyl)methyl]-1-({4-[(4-methylpyrazol-1-yl)methyl]phenyl}methyl)-3-(trifluoromethyl)pyrazole-4-carboxamide;

N-{[2-fluoro-6-(trifluoromethyl)phenyl]methyl}-1-({4-[(4-methylpyrazol-1-

yl)methyl]phenyl}methyl)-3-(trifluoromethyl)pyrazole-4-carboxamide;

N-[(4-chloro-2,6-difluorophenyl)methyl]-1-({4-[(4-methylpyrazol-1-yl)methyl]phenyl}methyl)-

3-(trifluoromethyl)pyrazole-4-carboxamide;

N-{[3-chloro-2-fluoro-6-(trifluoromethyl)phenyl]methyl}-1-({4-[(4-methylpyrazol-1-

yl)methyl]phenyl}methyl)-3-(trifluoromethyl)pyrazole-4-carboxamide;

N-[(2-fluoro-4-methylphenyl)methyl]-1-({4-[(4-methylpyrazol-1-yl)methyl]phenyl}methyl)-3-(trifluoromethyl)pyrazole-4-carboxamide;

N-[(3-fluoro-4-methoxypyridin-2-yl)methyl]-3-(methoxymethyl)-1-{{4-[(2-oxopyridin-1-

yl)methyl]phenyl)methyl)pyrazole-4-carboxamide;

N-[(5-chloro-1-benzothiophen-3-yl)methyl]-3-(methoxymethyl)-1-({4-[(2-oxopyridin-1-yl)methyl]phenyl}methyl)pyrazole-4-carboxamide;

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N-{[2-fluoro-6-(trifluoromethyl)phenyl]methyl}-1-({4-[(2-oxopyridin-1-
yl)methyl]phenyl}methyl)-3-(trifluoromethyl)pyrazole-4-carboxamide;
3-cyclopropyl-N-[(2-fluoro-3-methoxyphenyl)methyl]-1-({4-[(2-oxopyridin-1-
yl)methyl]phenyl}methyl)pyrazole-4-carboxamide;
N-[(2-fluoro-3-methoxyphenyl)methyl]-3-(methoxymethyl)-1-((4-[(2-oxopyridin-1-
yl)methyl]phenyl}methyl)pyrazole-4-carboxamide;
N-[(2-fluoro-3,6-dimethoxyphenyl)methyl]-3-(methoxymethyl)-1-({4-[(2-oxopyridin-1-
yl)methyl]phenyl}methyl)pyrazole-4-carboxamide;
3-(dimethylamino)-N-[(2-fluoro-3-methoxyphenyl)methyl]-1-({4-[(2-oxopyridin-1-
yl)methyl]phenyl}methyl)pyrazole-4-carboxamide;
N-[(2-fluoro-5-methoxyphenyl)methyl]-3-(methoxymethyl)-1-({4-[(2-oxopyridin-1-
yl)methyl]phenyl)methyl)pyrazole-4-carboxamide;
N-[(2-fluoro-4-methylphenyl)methyl]-3-(methoxymethyl)-1-({4-[(2-oxopyridin-1-
yl)methyl]phenyl}methyl)pyrazole-4-carboxamide;
N-[(2,6-difluoro-3-methoxyphenyl)methyl]-3-(methoxymethyl)-1-({4-[(2-oxopyridin-1-
yl)methyl]phenyl}methyl)pyrazole-4-carboxamide;
N-{[2-(difluoromethyl)phenyl]methyl}-3-(methoxymethyl)-1-({4-[(2-oxopyridin-1-
yl)methyl]phenyl}methyl)pyrazole-4-carboxamide;
N-{[2-(difluoromethyl)-3-methoxyphenyl]methyl}-3-(methoxymethyl)-1-({4-{(2-oxopyridin-1-
yl)methyl]phenyl}methyl)pyrazole-4-carboxamide;
3-amino-N-{[2-fluoro-6-(trifluoromethyl)phenyl]methyl}-1-({4-[(2-oxopyridin-1-
yl)methyl]phenyl}methyl)pyrazole-4-carboxamide;
3-acetamido-N-[(2-fluoro-3-methoxyphenyl)methyl]-1-({4-[(2-oxopyridin-1-
yl)methyl]phenyl}methyl)pyrazole-4-carboxamide;
N-[(3-chloro-2,6-difluorophenyl)methyl]-3-(methoxymethyl)-1-((4-[(2-oxopyridin-1-
yl)methyl]phenyl}methyl)pyrazole-4-carboxamide;
N-[(5-chloro-2-cyanophenyl)methyl]-3-(methoxymethyl)-1-({4-[(2-oxopyridin-1-
yl)methyl]phenyl}methyl)pyrazole-4-carboxamide;
N-[(6-cyano-2-fluoro-3-methoxyphenyl)methyl]-3-(methoxymethyl)-1-({4-[(2-oxopyridin-1-
yl)methyl]phenyl}methyl)pyrazole-4-carboxamide;
N-{[5-methoxy-2-(trifluoromethyl)phenyl]methyl}-3-(methoxymethyl)-1-({4-[(2-oxopyridin-1-
yl)methyl]phenyl)methyl)pyrazole-4-carboxamide;
N-{[2-(difluoromethyl)-6-fluorophenyl]methyl}-3-(methoxymethyl)-1-({4-[(2-oxopyridin-1-
yl)methyl]phenyl}methyl)pyrazole-4-carboxamide;
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N-{[2-(difluoromethyl)-5-methoxyphenyl]methyl}-3-(methoxymethyl)-1-{{4--{(2-oxopyridin-1yl)methyl]phenyl}methyl)pyrazole-4-carboxamide; N-{[2-(difluoromethyl)-6-fluoro-3-methoxyphenyl]methyl}-3-(methoxymethyl)-1-({4-[(2oxopyridin-1-yl)methyl]phenyl}methyl)pyrazole-4-carboxamide; N-[(2-carbamoyl-6-fluorophenyl)methyl]-3-(methoxymethyl)-1-({4-[(2-oxopyridin-1yl)methyl]phenyl}methyl)pyrazole-4-carboxamide; N-[(2-carbamoyl-5-methoxyphenyl)methyl]-3-(methoxymethyl)-1-({4-[(2-oxopyridin-1yl)methyl]phenyl}methyl)pyrazole-4-carboxamide; N-{[3-(difluoromethoxy)-2-fluorophenyl]methyl}-3-(methoxymethyl)-1-({4-[(2-oxopyridin-1yl)methyl]phenyl}methyl)pyrazole-4-carboxamide; N-{[2-(difluoromethoxy)-6-fluorophenyl]methyl}-3-(methoxymethyl)-1-({4-[(2-oxopyridin-1yl)methyl]phenyl}methyl)pyrazole-4-carboxamide; N-[(2,5-difluoro-3-methoxyphenyl)methyl]-3-(methoxymethyl)-1-({4-[(2-oxopyridin-1yl)methyl]phenyl}methyl)pyrazole-4-carboxamide; N-[(2-fluoro-6-methylphenyl)methyl]-3-(methoxymethyl)-1-{{4-[(2-oxopyridin-1yl)methyl]phenyl}methyl)pyrazole-4-carboxamide; N-[(6-chloro-2-fluoro-3-methoxyphenyl)methyl]-3-(methoxymethyl)-1-({4-[(2-oxopyridin-1yl)methyl]phenyl}methyl)pyrazole-4-carboxamide; 3-amino-N-[(2-fluoro-3-hydroxyphenyl)methyl]-1-({4-[(2-oxopyridin-1yl)methyl]phenyl}methyl)pyrazole-4-carboxamide; N-[(3-ethyl-2-fluorophenyl)methyl]-3-(methoxymethyl)-1-({4-[(2-oxopyridin-1yl)methyl]phenyl}methyl)pyrazole-4-carboxamide; 3-(methoxymethyl)-N-[(3-methoxyphenyl)methyl]-1-({4-[(2-oxopyridin-1yl)methyl]phenyl}methyl)pyrazole-4-carboxamide; N-[(2,6-difluoro-3-methoxyphenyl)methyl]-3-(methoxymethyl)-1-({4-[(4-methyl-2-oxopyridin-1-yl)methyl]phenyl}methyl)pyrazole-4-carboxamide; N-[(2,6-difluoro-3-methoxyphenyl)methyl]-1-({4-[(5-fluoro-2-oxopyridin-1yl)methyl]phenyl}methyl)-3-(methoxymethyl)pyrazole-4-carboxamide; N-[(2-fluoro-3-methoxyphenyl)methyl]-2-methyl-1-({4-[(2-oxopyridin-1yl)methyl]phenyl}methyl)imidazole-4-carboxamide; N-[(2-fluoro-3-methoxyphenyl)methyl]-1-{{4-[(2-oxopyridin-1-yl)methyl]phenyl}methyl)-2-(trifluoromethyl)imidazole-4-carboxamide;

3-amino-N-[(7-chloro-4-methyl-2,3-dihydro-1,4-benzoxazin-2-yl)methyl]-1-({4-[(2-oxopyridin-

1-yl)methyl]phenyl}methyl)pyrazole-4-carboxamide;

3-amino-N-[(7-chloro-3,4-dihydro-2H-1,4-benzoxazin-2-yl)methyl]-1-({4-[(2-oxopyridin-1-yl)methyl]phenyl}methyl)pyrazole-4-carboxamide and pharmaceutically acceptable salts and solvates thereof.

The present invention also encompasses, but is not limited to, the compounds listed below:

3-Amino-1-[4-(2-oxo-2H-pyridin-1-ylmethyl)-benzyl]-1H-pyrazole-4-carboxylic acid 2-fluoro-3-methoxy-benzylamide;

N-[(3-fluoro-4-methoxypyridin-2-yl)methyl]-3-(methoxymethyl)-1-({4-[(2-oxopyridin-1-yl)methyl]phenyl}methyl)pyrazole-4-carboxamide;

N-{[2-fluoro-6-(trifluoromethyl)phenyl]methyl}-1-({4-[(2-oxopyridin-1-yl)methyl]phenyl}methyl)-3-(trifluoromethyl)pyrazole-4-carboxamide;

3-cyclopropyl-N-[(2-fluoro-3-methoxyphenyl)methyl]-1-({4-[(2-oxopyridin-1-yl)methyl]phenyl}methyl)pyrazole-4-carboxamide;

N-[(2-fluoro-3-methoxyphenyl)methyl]-3-(methoxymethyl)-1-({4-[(2-oxopyridin-1-yl)methyl]phenyl}methyl)pyrazole-4-carboxamide;

N-[(2-fluoro-3,6-dimethoxyphenyl)methyl]-3-(methoxymethyl)-1-({4-[(2-oxopyridin-1-yl)methyl]phenyl}methyl)pyrazole-4-carboxamide;

3-(dimethylamino)-N-[(2-fluoro-3-methoxyphenyl)methyl]-1-({4-[(2-oxopyridin-1-yl)methyl]phenyl}methyl)pyrazole-4-carboxamide;

N-[(2-fluoro-5-methoxyphenyl)methyl]-3-(methoxymethyl)-1-({4-[(2-oxopyridin-1-yl)methyl]phenyl}methyl)pyrazole-4-carboxamide;

N-[(2-fluoro-4-methylphenyl)methyl]-3-(methoxymethyl)-1-({4-[(2-oxopyridin-1-yl)methyl]phenyl}methyl)pyrazole-4-carboxamide;

N-[(2,6-difluoro-3-methoxyphenyl)methyl]-3-(methoxymethyl)-1-({4-[(2-oxopyridin-1-yl)methyl]phenyl}methyl)pyrazole-4-carboxamide;

N-{[2-(difluoromethyl)phenyl]methyl}-3-(methoxymethyl)-1-({4-[(2-oxopyridin-1-yl)methyl]phenyl}methyl)pyrazole-4-carboxamide;

N-{[2-(difluoromethyl)-3-methoxyphenyl]methyl}-3-(methoxymethyl)-1-({4-[(2-oxopyridin-1-yl)methyl]phenyl}methyl)pyrazole-4-carboxamide;

3-amino-N-{[2-fluoro-6-(trifluoromethyl)phenyl]methyl}-1-({4-[(2-oxopyridin-1-yl)methyl]phenyl}methyl)pyrazole-4-carboxamide;

N-[(5-chloro-2-cyanophenyl)methyl]-3-(methoxymethyl)-1-({4-[(2-oxopyridin-1-yl)methyl]phenyl}methyl)pyrazole-4-carboxamide;

N-[(6-cyano-2-fluoro-3-methoxyphenyl)methyl]-3-(methoxymethyl)-1-({4-[(2-oxopyridin-1-yl)methyl]phenyl}methyl)pyrazole-4-carboxamide;

N-{[5-methoxy-2-(trifluoromethyl)phenyl]methyl}-3-(methoxymethyl)-1-({4-[(2-oxopyridin-1-yl)methyl]phenyl}methyl)pyrazole-4-carboxamide;

N-{[2-(difluoromethyl)-6-fluorophenyl]methyl}-3-(methoxymethyl)-1-{{4-[(2-oxopyridin-1-yl)methyl]phenyl}methyl)pyrazole-4-carboxamide;

N-{[2-(difluoromethyl)-5-methoxyphenyl]methyl}-3-(methoxymethyl)-1-({4-[(2-oxopyridin-1-yl)methyl]phenyl}methyl)pyrazole-4-carboxamide;

N-{[2-(difluoromethyl)-6-fluoro-3-methoxyphenyl]methyl}-3-(methoxymethyl)-1-({4-[(2-oxopyridin-1-yl)methyl]phenyl}methyl)pyrazole-4-carboxamide;

N-[(2-carbamoyl-6-fluorophenyl)methyl]-3-(methoxymethyl)-1-({4-[(2-oxopyridin-1-yl)methyl]phenyl}methyl)pyrazole-4-carboxamide;

N-[(2-carbamoyl-5-methoxyphenyl)methyl]-3-(methoxymethyl)-1-({4-[(2-oxopyridin-1-yl)methyl]phenyl}methyl)pyrazole-4-carboxamide;

N-{[2-(difluoromethoxy)-6-fluorophenyl]methyl}-3-(methoxymethyl)-1-({4-[(2-oxopyridin-1-yl)methyl]phenyl}methyl)pyrazole-4-carboxamide;

N-[(2,5-difluoro-3-methoxyphenyl)methyl]-3-(methoxymethyl)-1-({4-[(2-oxopyridin-1-yl)methyl]phenyl}methyl)pyrazole-4-carboxamide;

N-[(6-chloro-2-fluoro-3-methoxyphenyl)methyl]-3-(methoxymethyl)-1-({4-[(2-oxopyridin-1-yl)methyl]phenyl}methyl)pyrazole-4-carboxamide;

3-(methoxymethyl)-N-[(3-methoxyphenyl)methyl]-1-({4-[(2-oxopyridin-1-yl)methyl]phenyl}methyl)pyrazole-4-carboxamide;

N-[(2,6-difluoro-3-methoxyphenyl)methyl]-1-((4-[(5-fluoro-2-oxopyridin-1-yl)methyl]phenyl)methyl)-3-(methoxymethyl)pyrazole-4-carboxamide;

N-[(2-fluoro-3-methoxyphenyl)methyl]-2-methyl-1-({4-[(2-oxopyridin-1-yl)methyl]phenyl}methyl)imidazole-4-carboxamide;

3-amino-N-[(7-chloro-4-methyl-2,3-dihydro-1,4-benzoxazin-2-yl)methyl]-1-({4-[(2-oxopyridin-1-yl)methyl]phenyl}methyl)pyrazole-4-carboxamide;

 $3-amino-N-[(7-chloro-3,4-dihydro-2H-1,4-benzoxazin-2-yl)methyl]-1-(\{4-[(2-oxopyridin-1-yl)methyl]phenyl\}methyl)pyrazole-4-carboxamide$

and pharmaceutically acceptable salts and solvates thereof.

As previously mentioned, the compounds of the present invention are potent and selective inhibitors of plasma kallikrein. They are therefore useful in the treatment of disease conditions for which overactivity of plasma kallikrein is a causative factor.

Accordingly, the present invention provides a compound of formula (I) for use in medicine.

The present invention also provides for the use of a compound of formula (I) in the manufacture of a medicament for the treatment or prevention of a disease or condition in which plasma kallikrein activity is implicated.

The present invention also provides a compound of formula (I) for use in the treatment or prevention of a disease or condition in which plasma kallikrein activity is implicated.

The present invention also provides a method of treatment of a disease or condition in which plasma kallikrein activity is implicated comprising administration to a subject in need thereof a therapeutically effective amount of a compound of formula (I).

In one aspect, the disease or condition in which plasma kallikrein activity is implicated is selected from impaired visual acuity, diabetic retinopathy, diabetic macular edema, hereditary angioedema, diabetes, pancreatitis, cerebral haemorrhage, nephropathy, cardiomyopathy, neuropathy, inflammatory bowel disease, arthritis, inflammation, septic shock, hypotension, cancer, adult respiratory distress syndrome, disseminated intravascular coagulation, cardiopulmonary bypass surgery and bleeding from post operative surgery.

In a preferred aspect, the disease or condition in which plasma kallikrein activity is implicated is retinal vascular permeability associated with diabetic retinopathy and diabetic macular edema.

Combination Therapy

The compounds of the present invention may be administered in combination with other therapeutic agents. Suitable combination therapies include a compound of formula (I) combined with one or more agents selected from agents that inhibit platelet-derived growth factor (PDGF), endothelial growth factor (VEGF), integrin alpha5beta1, steroids, other agents that inhibit plasma kallikrein and other inhibitors of inflammation. Specific examples of therapeutic agents that may be combined with the compounds of the present invention include those disclosed in EP2281885A and by S. Patel in *Retina*, 2009 Jun;29(6 Suppl):S45-8.

When combination therapy is employed, the compounds of the present invention and said combination agents may exist in the same or different pharmaceutical compositions, and may be administered separately, sequentially or simultaneously.

In another aspect, the compounds of the present invention may be administered in combination with laser treatment of the retina. The combination of laser therapy with intravitreal injection of an inhibitor of VEGF for the treatment of diabetic macular edema is known (Elman M, Aiello L, Beck R, et al. "Randomized trial evaluating ranibizumab plus prompt or deferred laser or triamcinolone plus prompt laser for diabetic macular edema". Ophthalmology. 27 April 2010).

Definitions

The term "alkyl" includes saturated hydrocarbon residues including:

- linear groups up to 10 carbon atoms (C_1 - C_{10}), or of up to 6 carbon atoms (C_1 - C_6), or of up to 4 carbon atoms (C_1 - C_4). Examples of such alkyl groups include, but are not limited, to C_1 methyl, C_2 ethyl, C_3 propyl and C_4 n-butyl.
- branched groups of between 3 and 10 carbon atoms (C_3 - C_{10}), or of up to 7 carbon atoms (C_3 - C_7), or of up to 4 carbon atoms (C_3 - C_4). Examples of such alkyl groups include, but are not limited to, C_3 isopropyl, C_4 sec-butyl, C_4 iso-butyl, C_4 tert-butyl and C_5 neo-pentyl.

each optionally substituted as stated above.

Cycloalkyl is a monocyclic saturated hydrocarbon of between 3 and 7 carbon atoms, or between 3 and 6 carbon atoms, or between 3 and 5 carbon atoms. Optionally, cycloalkyl may be substituted with a substituent selected from alkyl, alkoxy and NR12R13; wherein R12 and R13 are independently selected from H and alkyl or R12 and R13 together with the nitrogen to which they are attached form a 4-, 5-, 6- or 7-membered heterocylic ring which may be saturated or unsaturated with 1 or 2 double bonds and which may be optionally mono- or di-substituted with substituents selected from oxo, alkyl, alkoxy, OH, F and CF₃. Cycloalkyl groups may contain from 3 to 7 carbon atoms, or from 3 to 6 carbon atoms, or from 3 to 5 carbon atoms, or from 3 to 4 carbon atoms. Examples of suitable monocyclic cycloalkyl groups include cyclopropyl, cyclobutyl, cyclopentyl, cyclohexyl and cycloheptyl.

The term "alkoxy" includes O-linked hydrocarbon residues including:

- linear groups of between 1 and 6 carbon atoms (C_1 - C_6), or of between 1 and 4 carbon atoms (C_1 - C_4). Examples of such alkoxy groups include, but are not limited to, C_1 - methoxy, C_2 - ethoxy, C_3 - n-propoxy and C_4 - n-butoxy.

branched groups of between 3 and 6 carbon atoms (C_3 - C_6) or of between 3 and 4 carbon atoms (C_3 - C_4). Examples of such alkoxy groups include, but are not limited to, C_3 - iso-propoxy, and C_4 - secbutoxy and tert-butoxy.

each optionally substituted as stated above.

Unless otherwise stated, halo is selected from Cl, F, Br and I.

Aryl is as defined above. Typically, aryl will be optionally substituted with 1, 2 or 3 substituents. Optional substituents are selected from those stated above. Examples of suitable aryl groups include phenyl and naphthyl (each optionally substituted as stated above). Preferably aryl is selected from phenyl, substituted phenyl (wherein said substituents are selected from those stated above) and naphthyl.

Heteroaryl is as defined above. Typically, heteroaryl will be optionally substituted with 1, 2 or 3 substituents. Optional substituents are selected from those stated above. Examples of suitable heteroaryl groups include thienyl, furanyl, pyrrolyl, pyrazolyl, imidazoyl, oxazolyl, isoxazolyl, thiazolyl, isothiazolyl, triazolyl, oxadiazolyl, thiadiazolyl, tetrazolyl, pyridinyl, pyridazinyl, pyrimidinyl, pyrazinyl, indolyl, benzimidazolyl, benzotriazolyl, quinolinyl and isoquinolinyl (optionally substituted as stated above).

The term "N-linked", such as in "N-linked pyrrolidinyl", means that the heterocycloalkyl group is joined to the remainder of the molecule *via* a ring nitrogen atom.

The term "O-linked", such as in "O-linked hydrocarbon residue", means that the hydrocarbon residue is joined to the remainder of the molecule *via* an oxygen atom.

In groups such as $-(CH_2)_{1-3}$ -aryl, "-" denotes the point of attachment of the substituent group to the remainder of the molecule.

"Pharmaceutically acceptable salt" means a physiologically or toxicologically tolerable salt and includes, when appropriate, pharmaceutically acceptable base addition salts and pharmaceutically acceptable acid addition salts. For example (i) where a compound of the invention contains one or more acidic groups, for example carboxy groups, pharmaceutically acceptable base addition salts that can be formed include sodium, potassium, calcium, magnesium and ammonium salts, or salts with organic amines, such as, diethylamine, *N*-methyl-glucamine, diethanolamine or amino acids (e.g. lysine) and the like; (ii)

where a compound of the invention contains a basic group, such as an amino group, pharmaceutically acceptable acid addition salts that can be formed include hydrochlorides, hydrobromides, sulfates, phosphates, acetates, citrates, lactates, tartrates, mesylates, succinates, oxalates, phosphates, esylates, tosylates, benzenesulfonates, naphthalenedisulphonates, maleates, adipates, fumarates, hippurates, camphorates, xinafoates, p-acetamidobenzoates, dihydroxybenzoates, hydroxynaphthoates, succinates, ascorbates, oleates, bisulfates and the like.

Hemisalts of acids and bases can also be formed, for example, hemisulfate and hemicalcium salts.

For a review of suitable salts, see "Handbook of Pharmaceutical Salts: Properties, Selection and Use" by Stahl and Wermuth (Wiley-VCH, Weinheim, Germany, 2002).

"Prodrug" refers to a compound which is convertible *in vivo* by metabolic means (e.g. by hydrolysis, reduction or oxidation) to a compound of the invention. Suitable groups for forming prodrugs are described in 'The Practice of Medicinal Chemistry, 2nd Ed. pp561-585 (2003) and in F. J. Leinweber, *Drug Metab. Res.*, 1987, 18, 379.

The compounds of the invention can exist in both unsolvated and solvated forms. The term 'solvate' is used herein to describe a molecular complex comprising the compound of the invention and a stoichiometric amount of one or more pharmaceutically acceptable solvent molecules, for example, ethanol. The term 'hydrate' is employed when the solvent is water.

Where compounds of the invention exist in one or more geometrical, optical, enantiomeric, diastereomeric and tautomeric forms, including but not limited to *cis*- and *trans*-forms, *E*- and *Z*-forms, *R*-, *S*- and *meso*-forms, keto-, and enol-forms. Unless otherwise stated a reference to a particular compound includes all such isomeric forms, including racemic and other mixtures thereof. Where appropriate such isomers can be separated from their mixtures by the application or adaptation of known methods (e.g. chromatographic techniques and recrystallisation techniques). Where appropriate such isomers can be prepared by the application or adaptation of known methods (e.g. asymmetric synthesis).

Unless otherwise stated, the compounds of the invention include compounds that differ only in the presence of one or more isotopically enriched atoms. For example, compounds wherein hydrogen is replaced by deuterium or tritium, or wherein carbon is replaced by ¹³C or ¹⁴C, are within the scope of the

present invention. Such compounds are useful, for example, as analytical tools or probes in biological assays.

In the context of the present invention, references herein to "treatment" include references to curative, palliative and prophylactic treatment.

General Methods

The compounds of formula (I) should be assessed for their biopharmaceutical properties, such as solubility and solution stability (across pH), permeability, *etc.*, in order to select the most appropriate dosage form and route of administration for treatment of the proposed indication. They may be administered alone or in combination with one or more other compounds of the invention or in combination with one or more other drugs (or as any combination thereof). Generally, they will be administered as a formulation in association with one or more pharmaceutically acceptable excipients. The term 'excipient' is used herein to describe any ingredient other than the compound(s) of the invention which may impart either a functional (i.e., drug release rate controlling) and/or a nonfunctional (i.e., processing aid or diluent) characteristic to the formulations. The choice of excipient will to a large extent depend on factors such as the particular mode of administration, the effect of the excipient on solubility and stability, and the nature of the dosage form.

Compounds of the invention intended for pharmaceutical use may be administered as a solid or liquid, such as a tablet, capsule or solution. Pharmaceutical compositions suitable for the delivery of compounds of the present invention and methods for their preparation will be readily apparent to those skilled in the art. Such compositions and methods for their preparation may be found, for example, in Remington's Pharmaceutical Sciences, 19th Edition (Mack Publishing Company, 1995).

Accordingly, the present invention provides a pharmaceutical composition comprising a compound of formula (I) and a pharmaceutically acceptable carrier, diluent or excipient.

For the treatment of conditions such as retinal vascular permeability associated with diabetic retinopathy and diabetic macular edema, the compounds of the invention may be administered in a form suitable for injection into the ocular region of a patient, in particular, in a form suitable for intravitreal injection. It is envisaged that formulations suitable for such use will take the form of sterile solutions of a compound of the invention in a suitable aqueous vehicle. The compositions may be administered to the patient under the supervision of the attending physician.

The compounds of the invention may also be administered directly into the blood stream, into subcutaneous tissue, into muscle, or into an internal organ. Suitable means for parenteral administration include intravenous, intraarterial, intraperitoneal, intrathecal, intraventricular, intraurethral, intrasternal, intracranial, intramuscular, intrasynovial and subcutaneous. Suitable devices for parenteral administration include needle (including microneedle) injectors, needle-free injectors and infusion techniques.

Parenteral formulations are typically aqueous or oily solutions. Where the solution is aqueous, excipients such as sugars (including but not restricted to glucose, manitol, sorbitol, etc.), salts, carbohydrates and buffering agents (preferably to a pH of from 3 to 9), but, for some applications, they may be more suitably formulated as a sterile non-aqueous solution or as a dried form to be used in conjunction with a suitable vehicle such as sterile, pyrogen-free water.

Parenteral formulations may include implants derived from degradable polymers such as polyesters (i.e., polylactic acid, polylactide, polylactide-co-glycolide, polycapro-lactone, polyhydroxybutyrate), polyorthoesters and polyanhydrides. These formulations may be administered via surgical incision into the subcutaneous tissue, muscular tissue or directly into specific organs.

The preparation of parenteral formulations under sterile conditions, for example, by lyophilisation, may readily be accomplished using standard pharmaceutical techniques well known to those skilled in the art.

The solubility of compounds of formula (I) used in the preparation of parenteral solutions may be increased by the use of appropriate formulation techniques, such as the incorporation of co-solvents and/or solubility-enhancing agents such as surfactants, micelle structures and cyclodextrins.

In one embodiment, the compounds of the invention may be administered orally. Oral administration may involve swallowing, so that the compound enters the gastrointestinal tract, and/or buccal, lingual, or sublingual administration by which the compound enters the blood stream directly from the mouth.

Formulations suitable for oral administration include solid plugs, solid microparticulates, semi-solid and liquid (including multiple phases or dispersed systems) such as tablets; soft or hard capsules containing multi- or nano-particulates, liquids, emulsions or powders; lozenges (including liquid-filled); chews; gels; fast dispersing dosage forms; films; ovules; sprays; and buccal/mucoadhesive patches.

Formulations suitable for oral administration may also be designed to deliver the compounds of the invention in an immediate release manner or in a rate-sustaining manner, wherein the release profile can be delayed, pulsed, controlled, sustained, or delayed and sustained or modified in such a manner which optimises the therapeutic efficacy of the said compounds. Means to deliver compounds in a rate-sustaining manner are known in the art and include slow release polymers that can be formulated with the said compounds to control their release.

Examples of rate-sustaining polymers include degradable and non-degradable polymers that can be used to release the said compounds by diffusion or a combination of diffusion and polymer erosion. Examples of rate-sustaining polymers include hydroxypropyl methylcellulose, hydroxypropyl cellulose, methyl cellulose, ethyl cellulose, sodium carboxymethyl cellulose, polyvinyl alcohol, polyvinyl pyrrolidone, xanthum gum, polymethacrylates, polyethylene oxide and polyethylene glycol.

Liquid (including multiple phases and dispersed systems) formulations include emulsions, solutions, syrups and elixirs. Such formulations may be presented as fillers in soft or hard capsules (made, for example, from gelatin or hydroxypropylmethylcellulose) and typically comprise a carrier, for example, water, ethanol, polyethylene glycol, propylene glycol, methylcellulose, or a suitable oil, and one or more emulsifying agents and/or suspending agents. Liquid formulations may also be prepared by the reconstitution of a solid, for example, from a sachet.

The compounds of the invention may also be used in fast-dissolving, fast-disintegrating dosage forms such as those described in Liang and Chen, Expert Opinion in Therapeutic Patents, 2001, **11** (6), 981-986.

The formulation of tablets is discussed in Pharmaceutical Dosage Forms: Tablets, Vol. 1, by H. Lieberman and L. Lachman (Marcel Dekker, New York, 1980).

For administration to human patients, the total daily dose of the compounds of the invention is typically in the range 0.01 mg and 1000 mg, or between 0.1 mg and 250 mg, or between 1 mg and 50 mg depending, of course, on the mode of administration.

The total dose may be administered in single or divided doses and may, at the physician's discretion, fall outside of the typical range given herein. These dosages are based on an average human subject having a weight of about 60kg to 70kg. The physician will readily be able to determine doses for subjects whose weight falls outside this range, such as infants and the elderly.

Synthetic Methods

The compounds of the present invention can be prepared according to the procedures of the following schemes and examples, using appropriate materials, and are further exemplified by the specific examples provided herein below. Moreover, by utilising the procedures described herein, one of ordinary skill in the art can readily prepare additional compounds that fall within the scope of the present invention claimed herein. The compounds illustrated in the examples are not, however, to be construed as forming the only genus that is considered as the invention. The examples further illustrate details for the preparation of the compounds of the present invention. Those skilled in the art will readily understand that known variations of the conditions and processes of the following preparative procedures can be used to prepare these compounds.

The compounds of the invention may be isolated in the form of their pharmaceutically acceptable salts, such as those described previously herein above.

It may be necessary to protect reactive functional groups (e.g. hydroxy, amino, thio or carboxy) in intermediates used in the preparation of compounds of the invention to avoid their unwanted participation in a reaction leading to the formation of the compounds. Conventional protecting groups, for example those described by T. W. Greene and P. G. M. Wuts in "Protective groups in organic chemistry" John Wiley and Sons, 4th Edition, 2006, may be used. For example, a common amino protecting group suitable for use herein is tert-butoxy carbonyl (Boc), which is readily removed by treatment with an acid such as trifluoroacetic acid or hydrogen chloride in an organic solvent such as dichloromethane. Alternatively the amino protecting group may be a benzyloxycarbonyl (Z) group which can be removed by hydrogenation with a palladium catalyst under a hydrogen atmosphere or 9fluorenylmethyloxycarbonyl (Fmoc) group which can be removed by solutions of secondary organic amines such as diethylamine or piperidine in an organic solvent. Carboxyl groups are typically protected as esters such as methyl, ethyl, benzyl or tert-butyl which can all be removed by hydrolysis in the presence of bases such as lithium or sodium hydroxide. Benzyl protecting groups can also be removed by hydrogenation with a palladium catalyst under a hydrogen atmosphere whilst tert-butyl groups can also be removed by trifluoroacetic acid. Alternatively a trichloroethyl ester protecting group is removed with zinc in acetic acid. A common hydroxy protecting group suitable for use herein is a methyl ether, deprotection conditions comprise refluxing in 48% aqueous HBr for 1-24 hours, or by stirring with borane tribromide in dichloromethane for 1-24 hours. Alternatively where a hydroxy group is protected as a benzyl ether, deprotection conditions comprise hydrogenation with a palladium catalyst under a hydrogen atmosphere.

Examples of synthetic methods that may be used to prepare 4-carboxyimidazoles are described in EP 1426364 A1 ("Imidazole-derivatives as factor Xa inhibitors", p27-28).

The compounds according to general formula I can be prepared using conventional synthetic methods for example but not limited to, the route outlined in Scheme 1. The amine 2 is coupled to an acid 1 to give the compound 3. This coupling is typically carried out using standard coupling conditions such as hydroxybenzotriazole and a carbodiimide, such as water soluble carbodiimide, in the presence of an organic base. Other standard coupling methods include the reaction of acids with amines in the presence of 2-(1H-benzotriazole-1-yl)-1,1,3,3-tetramethylaminium hexafluorophosphate, 2-(3H-[1,2,3]triazolo[4,5-b]pyridin-3-yl)-1,1,3,3-tetramethylisouronium hexafluorophosphate(V), benzotriazole-1-yl-oxy-tris-pyrrolidino-phosphoium hexafluorophosphate or bromo-trispyrolidino-phosphoium hexafluorophosphate in the presence of organic bases such as triethylamine, diisopropylethylamine or N-methylmorpholine. Alternatively the amide formation can take place via an acid chloride in the presence of an organic base. Such acid chlorides can be formed by methods well known in the literature, for example reaction of the acid with oxalyl chloride or thionyl chloride.

Alternatively compounds according to general formula I can be prepared using the route outlined in Scheme 2a. The acid 4 can be coupled to an amine 2 using suitable coupling methods as previously described to give compound 5. In a typical second step the nitrogen of the heterocyclic ring is alkylated with compound 6 to give compound 7. The alkylation can be carried out in the presence of a base such as potassium carbonate, cesium carbonate, sodium carbonate or sodium hydride in which case the leaving group is a halide or sulphonate. Alternatively the alkylation may be carried out using an alcohol under Mitsunobu conditions in the presence of triphenylphosphine.

In a variation of Scheme 2a compounds according to general formula I can be prepared using the route outlined in Scheme 2b. Scheme 2b differs from Scheme 2a in that the moiety Y is equal to N therefore a protecting group strategy may be employed and the synthetic steps carried out in a different order. The pyrazole carboxylic acid, protected as an ester (PG) as described previously, compound 8, is alkylated with compound 6. The alkylation can be carried out in the presence of a base such as potassium carbonate, cesium carbonate, sodium carbonate or sodium hydride in which case the leaving group is a halide or sulphonate. Alternatively the alkylation may be carried out using an alcohol under Mitsunobu conditions in the presence of triphenylphosphine. In this case there are two possible nitrogens for the alkylation to occur at therefore there is the possibility of two regioisomers 9 and 10 being formed.

Compounds 9 and 10 may be separated at this stage or at a subsequent stage in the synthesis using separation methods well known to those skilled in the art, for example by chromatography or by fractional crystallisation. The protecting group of compound 9 is removed by hydrolysis to give the corresponding acid 11 using standard methods as described previously. Compound 11 can be coupled to an amine 2 using suitable coupling methods as previously described to give compound 12.

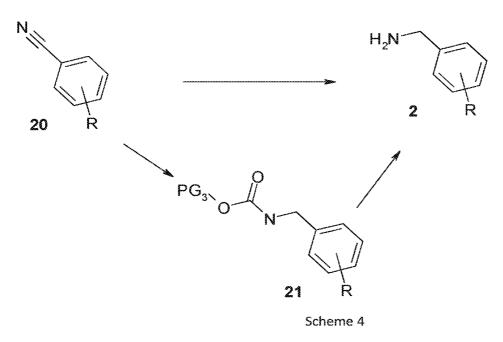
Scheme 2a

Scheme 2b

Alternatively compounds according to general formula I can be prepared using the route outlined in Scheme 3. The pyrrole 17 can be formed in two steps the first of which involves reaction of the sodium salt of an alkyl ketoacetate 13, typically protected with a protecting group (PG) as described previously, with a chloroketone 14 in the presence of a base such as potassium carbonate to give compound 15 which in a typical second step is reacted with the amine 16 in the presence of an acid such as but not limited to sulphonic acid derivatives e.g. p-toluenesulphonic acid to yield compound 17 which in a typical third step is subsequently hydrolysed to the corresponding acid 18 using standard methods as described previously. In a typical fourth step the acid 18 can be coupled to an amine 2 using suitable coupling methods as previously described to give compound 19.

Scheme 3

The amine, compound 2 can be prepared using conventional synthetic methods for example, but not limited to, the routes outlined in Scheme 4. The nitrile of compound 20 is reduced by standard reducing agents including but not limited to lithium aluminium hydride, sodium borohydride, sodium borohydride and nickel chloride, sodium borohydride and cobalt chloride, borane, and catalytic hydrogenation over a catalyst such as palladium, platinum or Raney nickel. In some cases, for example when the reducing agent is sodium borohydride or catalytic hydrogenation is employed, it is possible to carry out *in situ* protection of the resulting amino group, for example resulting in the carbamate 21, for example *tert*-butoxy carbamate. This may be helpful to enable for example purification by chromatography of the intermediate compound 21. The protecting group is subsequently removed using standard conditions as described previously to give compound 2.



Examples

The invention is illustrated by the following non-limiting examples in which the following abbreviations and definitions are used:

aq	Aqueous solution
DCM	Dichloromethane
DMF	N,N-Dimethylformamide
DMSO	Dimethyl sulfoxide
EtOAc	Ethyl Acetate
нати	2-(3H-[1,2,3]triazolo[4,5-b]pyridin-3-yl)-1,1,3,3-tetramethylisouronium hexafluorophosphate(V)
hrs	Hours
HOBt	Hydroxybenzotriazole
LCMS	Liquid chromatography mass spectrometry
Me	Methyl
MeCN	Acetonitrile
МеОН	Methanol
Min	Minutes
MS	Mass spectrum
NMR	Nuclear magnetic resonance spectrum – NMR spectra were recorded at a frequency of 400MHz unless otherwise indicated

Pet. Ether	Petroleum ether fraction boiling at 60-80°C
Ph	Phenyl
SWFI	Sterile water for injection
rt	room temperature
THF	Tetrahydrofuran
TFA	Trifluoroacetic acid

All reactions were carried out under an atmosphere of nitrogen unless specified otherwise.

¹H NMR spectra were recorded on a Bruker (400MHz) spectrometer with reference to deuterium solvent and at rt.

Molecular ions were obtained using LCMS which was carried out using a Chromolith Speedrod RP-18e column, $50 \times 4.6 \text{ mm}$, with a linear gradient 10% to 90% 0.1% HCO₂H/MeCN into 0.1% HCO₂H/H₂O over 13 min, flow rate 1.5 mL/min, or using Agilent, X-Select, acidic, 5-95% MeCN/water over 4 min. Data was collected using a Thermofinnigan Surveyor MSQ mass spectrometer with electospray ionisation in conjunction with a Thermofinnigan Surveyor LC system.

Where products were purified by flash chromatography, 'silica' refers to silica gel for chromatography, 0.035 to 0.070 mm (220 to 440 mesh) (e.g. Merck silica gel 60), and an applied pressure of nitrogen up to 10 p.s.i accelerated column elution. Reverse phase preparative HPLC purifications were carried out using a Waters[™] 2525 binary gradient pumping system at flow rates of typically 20 mL/min using a Waters[™] 2996 photodiode array detector.

All solvents and commercial reagents were used as received.

20 Chemical names were generated using automated software such as the Autonom software provided as part of the ISIS Draw package from MDL Information Systems or the Chemaxon software provided as a component of MarvinSketch or as a component of the IDBS E-WorkBook.

A. 1-(4-Hydroxymethyl-benzyl)-1H-pyridin-2-one

4-(Chloromethyl)benzylalcohol (5.0 g, 31.93 mmol) was dissolved in acetone (150 mL). 2-hydroxypyridine (3.64 g, 38.3 mmol) and potassium carbonate (13.24 g, 95.78 mmol) were added and the reaction mixture was stirred at 50 °C for 3 hrs after which time the solvent was removed *in vacuo* and the residue taken up in chloroform (100 mL). This solution was washed with water (30 mL), brine (30 mL), dried (Na₂SO₄) and

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evaporated *in vacuo*. The residue was purified by flash chromatography (silica), eluent 3% MeOH / 97% CHCl₃, to give a white solid identified as 1-(4-hydroxymethyl-benzyl)-1H-pyridin-2-one (5.30g, 24.62mmol, 77% yield).

 $[M+Na]^+ = 238$

B1. 1-(4-Chloromethyl-benzyl)-1H-pyridin-2-one

1-(4-Hydroxymethyl-benzyl)-1H-pyridin-2-one (8.45 g, 39.3 mmol), dry DCM (80 mL) and triethylamine (7.66 ml, 55.0 mmol) were cooled in an ice bath. Methanesulfonyl chloride (3.95 ml, 51.0 mmol) was added and stirred in ice bath for 15 min. The ice bath was removed and stirring continued at rt temperature overnight. The reaction mixture was partitioned between DCM (100 mL) and saturated aqueous NH₄Cl solution (100 mL). The aqueous layer was extracted with further DCM (2 x 50 mL) and the combined organics washed with brine (50 mL), dried over Na₂SO₄, filtered and concentrated to give 1-(4-chloromethyl-benzyl)-1H-pyridin-2-one (8.65 g, 36.6 mmol, 93 % yield) as a pale yellow solid.

 $[MH]^+ = 234.1$

B2. 1-{4-Bromomethyl-benzyl}-1H-pyridin-2-one

1-(4-Hydroxymethyl-benzyl)-1H-pyridin-2-one (2.30 g, 6.97 mmol) was dissolved in DCM (250 mL). To this solution was added phosphorous tribromide (5.78 g, 21.37 mmol). The reaction mixture was stirred at rt for 18 hrs and diluted with CHCl₃ (250 mL). The filtrate was washed with sat. NaHCO₃ (aq) (30 mL), water (30 mL), brine (30 mL), dried (Na₂SO₄) and evaporated *in vacuo* to give a white solid which was identified as 1-(4-bromomethyl-benzyl)-1H-pyridin-2-one (2.90 g, 10.43 mmol, 98%).

 $[M+H]^+ = 277.7$

C. Methyl 3-(methoxymethyl)-1-(4-((2-oxopyridin-1(2H)-yl)methyl)benzyl)-1H-pyrazole-4-carboxylate

Potassium carbonate (519 mg, 3.76 mmol) was added to a solution of methyl 3-(methoxymethyl)-1H-pyrazole-4-carboxylate (320 mg, 1.88 mmol; CAS no. 318496-66-1 (synthesised according to the method described in WO 2012/009009)) and 1-(4-(chloromethyl)benzyl)pyridin-2(1H)-one (527 mg, 2.26 mmol) in DMF (5 mL) and heated at 60 °C overnight. The reaction mixture was diluted with EtOAc (50 mL) and washed with brine (2 x 100 mL), dried over magnesium sulfate, filtered and reduced *in vacuo*. The crude product was purified by flash chromatography (40 g column, 0-100% EtOAc in isohexanes) to afford two regioisomers. The second isomer off the column was collected to afford methyl 3-(methoxymethyl)-1-(4-((2-oxopyridin-1(2H)-yl)methyl)benzyl)-1H-pyrazole-4-carboxylate (378 mg, 1.01 mmol, 53.7 % yield) as a colourless gum.

 $[MH]^* = 368.2$

D. 3-(Methoxymethyl)-1-(4-((2-oxopyridin-1(2H)-yl)methyl)benzyl)-1H-pyrazole-4-carboxylic acid

To methyl 3-(methoxymethyl)-1-(4-((2-oxopyridin-1(2H)-yl)methyl)benzyl)-1H-pyrazole-4-carboxylate (3.77 g, 10.26 mmol) in THF (5 mL) and MeOH (5 mL) was added 2M NaOH solution (15.39 ml, 30.8 mmol) and stirred at rt overnight. 1M HCl (50 mL) was added and extracted with EtOAc (50 mL). The organic layer was washed with brine (50 mL), dried over magnesium sulfate, filtered and reduced *in vacuo* to give 3-(methoxymethyl)-1-(4-((2-oxopyridin-1(2H)-yl)methyl)benzyl)-1H-pyrazole-4-carboxylic acid (1.22 g, 3.45 mmol, 33.6 % yield) as a white powder.

 $[MH]^+ = 354.2$

G. [4-(4-Methyl-pyrazol-1-ylmethyl)-phenyl]-methanol

4-(Chloromethyl)benzylalcohol (5.47 g, 34.9 mmol) was dissolved in acetone (50 mL). 4-Methylpyrazole (2.86 g, 34.9 mmol) and potassium carbonate (5.07 g, 36.7 mmol) were added and the reaction mixture was stirred at rt for 18 hrs and at 60 °C for 30 hrs after which time the solvent was removed *in vacuo* and the residue taken up in EtOAc (100 mL). This solution was washed with water (30 mL), brine (30 mL), dried (MgSO₄) and evaporated *in vacuo*. The residue was purified by flash chromatography (silica), eluent gradient of 10 to 80% EtOAc in iso-Hexane, fractions combined and evaporated *in vacuo* to give a white solid identified as [4-(4-methyl-pyrazol-1-ylmethyl)-phenyl]-methanol (3.94 g, 18.90 mmol, 54% yield). $[MH]^+ = 203$

H. 1-(4-Chloromethyl-benzyl)-4-methyl-1H-pyrazole

[4-(4-Methyl-pyrazol-1-ylmethyl)-phenyl]-methanol (2.03 g, 10.04 mmol) and triethylamine (1.13 g, 11.54 mmol) was dissolved in DCM (40 mL). To this solution was added methanesulphonyl chloride (1.26 g, 11.04 mmol) dropwise. The reaction mixture was stirred at rt for 18 hrs and diluted with CHCl₃ (250 mL). The mixture was washed with saturated NH₄Cl (30 mL), water (30 mL), brine (30 mL), dried (Na₂SO₄) and evaporated *in vacuo*. The residue was purified by flash chromatography (silica), eluent gradient of 0 to 60% EtOAc in iso-Hexane, fractions combined and evaporated *in vacuo* to give a white solid identified as 1-(4-chloromethyl-benzyl)-4-methyl-1H-pyrazole (1.49 g, 6.62 mmol, 60% yield).

 $[MH]^+ = 221, 223$

M. 3-Amino-1-[4-(2-oxo-2H-pyridin-1-ylmethyl)-benzyl]-1H-pyrazole-4-carboxylic acid ethyl ester

1-(4-Bromomethyl-benzyl)-1H-pyridin-2-one (850 mg, 3.06 mmol) was dissolved in DMF (10 mL). 5-Amino-1H-pyrazole-4-carboxylic acid ethyl ester (522 mg, 3.36 mmol) and cesium carbonate (1.99 g, 6.11 mmol) were added and the reaction mixture was stirred at 50 °C for 18 hrs after which time the reaction mixture was diluted with EtOAc (100 mL). This solution was washed with water (30 mL), brine (30 mL), dried (Na₂SO₄) and evaporated *in vacuo*. The residue was purified by flash chromatography (silica), eluent gradient from 30% Pet Ether / 70% EtOAc to 100% EtOAc, to afford two regioisomers. The second isomer off the column was collected to afford 3-amino-1-[4-(2-oxo-2H-pyridin-1-ylmethyl)-benzyl]-1H-pyrazole-4-carboxylic acid ethyl ester (480 mg, 1.36mmol, 45% yield) as a white solid.

 $[MH]^* = 353.1$

N. 3-Amino-1-[4-(2-oxo-2H-pyridin-1-ylmethyl)-benzyl]-1H-pyrazole-4-carboxylic acid

3-Amino-1-[4-(2-oxo-2H-pyridin-1-ylmethyl)-benzyl]-1H-pyrazole-4-carboxylic acid ethyl ester (480 mg, 1.36 mmol) was dissolved in THF (50 mL) and water (5 mL). Lithium hydroxide (16 3mg, 6.81 mmol) was added. The reaction mixture was stirred at 50 °C for 18 hrs after which time the volatiles were removed *in vacuo* and the aqueous residue washed with CHCl₃ (150 mL). The aqueous layer was acidified with 1M HCl to pH7 and extracted with CHCl₃ (3 x 50 mL). The combined extracts were washed with water (30 mL), brine (30 mL), dried (Na₂SO₄) and evaporated *in vacuo* to give a white solid identified as 3-amino-1-[4-(2-oxo-2H-pyridin-1-ylmethyl)-benzyl]-1H-pyrazole-4-carboxylic acid (370 mg, 1.14mmol, 84% yield).

 $[MH]^+ = 325.2$

P. (2-Fluoro-3-methoxy-benzyl)-carbamic acid tert-butyl ester

2-Fluoro-3-methoxybenzonitrile (500 mg, 3.31 mmol) was dissolved in methanol (40 mL). This solution was cooled to 0 °C. Nickel (II) chloride hexahydrate (79 mg, 0.33 mmol) and di-tertbutyl dicarbonate (1.44g, 6.62mmol) were added followed by sodium borohydride (876 mg, 23.16 mmol) portionwise. The reaction mixture was stirred, allowed to warm to rt and stirred for 3 days. The MeOH was removed *in vacuo*. The residue was dissolved in CHCl₃ (150 mL), washed with sat NaHCO₃ (aq) (50 mL), water (50mL), brine (50mL), dried (Na₂SO₄) and evaporated *in vacuo*. The residue was purified by chromatography (silica), eluent 20% EtOAc / 80% Pet. Ether, to give a white solid identified as (2-fluoro-3-methoxy-benzyl)-carbamic acid tert-butyl ester (540 mg, 0.2 mmol, 64% yield).

 $[MH]^+ = 255.8$

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Q. 2-Fluoro-3-methoxy-benzylamine hydrochloride

(2-Fluoro-3-methoxy-benzyl)-carbamic acid tert-butyl ester (600 mg, 2.35 mmol) was dissolved in 4M HCl

in dioxan (40 mL). After 2 hrs at rt the solvent was removed in vacuo to give a pale yellow solid identified

as 2-fluoro-3-methoxy-benzylamine hydrochloride (414 mg, 2.17 mmol, 92% yield).

 $[MH]^+ = 155.9$

T. 1-tert-Butyl 4-ethyl 3-aminopyrazole-1,4-dicarboxylate

To 5-amino-1H-pyrazole-4-carboxylic acid ethyl ester (250 mg, 1.61 mmol) in DCM (10 mL) was added di-

tert-butyl dicarbonate (352 mg, 1.61 mmol) and diisopropylethylamine (702 µL, 521 mg, 4.03 mmol) and

the reaction stirred at rt overnight. Reaction mixture was diluted with DCM, water added, separated,

washed with brine, dried (MgSO₄), filtered and concentrated in vacuo. Flash chromatography afforded 1-

tert-butyl 4-ethyl 3-aminopyrazole-1,4-dicarboxylate as a white solid (122 mg, 30% yield).

 $[MH]^+ = 256.2$

U. Ethyl 3-acetamido-1H-pyrazole-4-carboxylate

A mixture of 1-tert-butyl 4-ethyl 3-aminopyrazole-1,4-dicarboxylate and acetyl chloride was stirred at 0

°C then heated at reflux for 2 hrs. The excess acetyl chloride was removed in vacuo. Water was added

and the resulting mixture stirred for 18 hrs at rt. The precipitate was collected by vaccum filtration and

dried to afford ethyl 3-acetamido-1H-pyrazole-4-carboxylate as a white solid (46 mg). The aqueous filtrate

was extracted with DCM (4 x 15 mL) and the combined organic layers were dried (MgSO₄), filtered and

concentrated in vacuo to afford a further crop of ethyl 3-acetamido-1H-pyrazole-4-carboxylate (48 mg)

(overall yield 94 mg, 99 %).

 $[MH]^+ = 197.8$

V. 5-Dimethylamino-1H-pyrazole-4-carboxylic acid ester

5-Amino-1H-pyrazole-4-carboxylic acid ester (1.0 g, 6.45 mmol) was dissolved in methanol (200 mL) and

the solution purged with nitrogen. Formaldehyde (37% by weight, 4.5 mL, 21.18 mmol) was added

followed by 10% Pd/C (1.0 g). The reaction mixture was shaked on a Parr hydrogenator at 10 psi for 18hrs. The reaction mixture was filtered through Celite[™] to remove the catalyst and the residue washed with methanol (200 mL) and water (20 mL). The combined filtrates were evaporated *in vacuo*. The crude residue was triturated with methanol/diethyl ether and the filtrate concentrated to afford a colourless oil identified as the title compound (1.1 g, 6.00 mmol, 93% yield).

[MH]⁺= 183.7

Example 1

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N-(3,5-Dimethoxybenzyl)-3-(methoxymethyl)-1-(4-((2-oxopyridin-1(2H)-yl)methyl)benzyl)-1H-pyrazole-4-carboxamide

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To a mixture of 3-(methoxymethyl)-1-(4-((2-oxopyridin-1(2H)-yl)methyl)benzyl)-1H-pyrazole-4-carboxylic acid (80 mg, 0.226 mmol), (3,5-dimethoxyphenyl)methanamine (45.4 mg, 0.272 mmol) and HATU (95 mg, 0.249 mmol) in anhydrous DCM (1.5 mL) and anhydrous DMF (0.3 mL) was added N,N-diisopropylethylamine (99 μl, 0.566 mmol) and the mixture allowed to stir at rt overnight. The reaction was concentrated *in vacuo* and the residue purified by flash chromatography loading in DCM, eluting with a gradient of 1 to 10% MeOH (containing 0.3% NH₃)/DCM to afford a gum. This was dissolved in acetonitrile (0.5 mL) and water (3 mL) added, forming a precipitate. This was sonicated, then filtered and dried under vacuum to afford N-(3,5-dimethoxybenzyl)-3-(methoxymethyl)-1-(4-((2-oxopyridin-1(2H)-yl)methyl)benzyl)-1H-pyrazole-4-carboxamide (76 mg, 0.150 mmol, 66.1 % yield) as a sticky pale yellow solid.

20 NMR (d6-DMSO) δ: 3.20 (3H, s), 3.71 (6H, s), 4.32 (2H, d, J = 5.8Hz), 4.53 (2H, s), 5.07 (2H, s), 5.28 (2H, s), 6.22 (1H, td, J = 6.7, 1.4Hz), 6.37 (1H, t, J = 2.3Hz), 6.40 (1H, dd, J = 9.2, 1.4Hz), 6.44 (2H, d, J = 2.3Hz), 7.20-

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7.29 (4H, m), 7.41 (1H, ddd, J = 9.1, 6.6, 2.1Hz), 7.76 (1H, dd, J = 6.8, 2.1Hz), 8.24 (1H, s), 8.32 (1H, t, J = 5.9Hz).

 $[MH]^+ = 503.3$

Example 2

3-Amino-1-[4-(2-oxo-2H-pyridin-1-ylmethyl)-benzyl]-1H-pyrazole-4-carboxylic acid 2-fluoro-3-methoxy-benzylamide

3-Amino-1-[4-(2-oxo-2H-pyridin-1-ylmethyl)-benzyl]-1H-pyrazole-4-carboxylic acid (75 mg, 0.23 mmol) was dissolved in DCM (20 mL) and DMF (1 ml). This solution was cooled to 0 °C. 2-Fluoro-3-methoxy-benzylamine hydrochloride (53 mg, 0.28 mmol) was added followed by HOBt (34 mg, 0.25 mmol) and triethylamine (70 mg, 0.69 mmol). Water soluble carbodiimide (53 mg, 0.28 mmol) was then added. The reaction mixture was stirred, allowed to warm to rt and stirred for 3 days. The mixture was diluted with chloroform (200 mL) and washed with NaHCO₃ (aq) (50mL), water (50mL) and brine (50mL), dried (Na₂SO₄) and evaporated *in vacuo*. The residue was purified by flash chromatography (silica), eluent 4% MeOH / 96% CHCl₃, to give a white solid identified as 3-amino-1-[4-(2-oxo-2H-pyridin-1-ylmethyl)-benzyl]-1H-pyrazole-4-carboxylic acid 2-fluoro-3-methoxy-benzylamide (92 mg, 0.20 mmol, 86% yield).

 $[MH]^+ = 462.2$

¹H NMR: (d6-DMSO) δ: 3.82 (3H, s), 4.36 (2H, d, J = 5.7Hz), 5.04 (2H, s), 5.07 (2H, s), 5.38 (2H, s), 6.21-6.24 (1H, m), 6.39 (1H, t, J = 0.7Hz), 6.86-6.87 (1H, m), 7.04-7.07 (2H, m), 7.20 (2H, d, J = 8.1Hz), 7.26 (2H, d, J = 8.1Hz), 7.39-7.43 (1H, m), 7.76 (1H, dd, J = 6.6, 1.6Hz), 8.00 (1H, s), 8.27 (1H, t, J = 5.9Hz).

Example 3

1-(7-Chloro-quinolin-3-ylmethyl)-3-methoxymethyl-1H-pyrazole-4-carboxylic acid 2-fluoro-3-methoxy-benzylamide

(7-Chloro-quinolin-3-yl)-methanol

7-Chloroquinoline-3-carboxylic acid (500 mg, 2.4 mmol) was dissolved in anhydrous THF (20 mL) and cooled to -20 °C. To this solution was added triethylamine (1.0 mL, 7.23 mmol) and isobutyl chloroformate (0.38 mL, 2.9 mmol). The reaction mixture was stirred at -20 °C for 20 min and then poured into a solution of sodium borohydride (731 mg, 19 mmol) in water (2 mL) at 0 °C. The reaction mixture was allowed to warm to rt and stirred for 18 hours. The mixture was diluted with EtOAc (50 mL) and the layers separated. The organic layer was washed with water (20 mL), brine (20 mL), dried (Na₂SO₄), filtered and evaporated *in vacuo* to give a yellow solid. The solid was purified by chromatography on silica, eluting with EtOAc/Pet Ether to afford (7-chloro-quinolin-3-yl)-methanol as an off white solid, 134 mg, 29% yield.

 $[MH]^+ = 194.1$

3-Bromomethyl-7-chloro-quinoline

(7-Chloro-quinolin-3-yl)-methanol (134 mg, 0.692 mmol) was dissolved in DCM (5 mL). PBr₃ (65 μ L, 0.692 mmol) was added and the reaction stirred for 3 hrs at rt. Upon completion, the reaction mixture was quenched with dilute NaHCO₃ (aq) (10mL). The layers were separated and the organic washed with water (10 mL) and brine (10 mL). The organic layer was dried (MgSO₄), filtered and concentrated *in vacuo* to afford a yellow solid identified as 3-bromomethyl-7-chloro-quinoline (78mg, 44% yield).

 $[MH]^{+} = 257.6$

1-(7-Chloro-quinolin-3-ylmethyl)-3-methoxymethyl-1H-pyrazole-4-carboxylic acid methyl ester

Methyl 3-(methoxymethyl)-1H-pyrazole-4-carboxylate (51 mg, 0.304 mmol; CAS no. 318496-66-1 (synthesised according to the method described in WO 2012/009009)) was taken up in DMF (2 mL) and treated with potassium carbonate (84 mg, 0.608 mmol) and 3-bromomethyl-7-chloro-quinoline (78 mg, 0.304 mmol). The reaction was stirred overnight at rt. EtOAc (60 mL) and water (20 mL) were added and the layers separated. The organic layer was washed with water (3 x 10 mL), brine (10 mL), dried (MgSO₄), filtered and evaporated *in vacuo*. The residue was purified by chromatography, eluting with EtOAc / Pet.Ether to afford two isomeric products. The faster running product was identified as the undesired regioisomer. The slower running product afforded a yellow oil and was identified as 1-(7-chloro-quinolin-3-ylmethyl)-3-methoxymethyl-1H-pyrazole-4-carboxylic acid methyl ester (53 mg, 50% yield).

 $[MH]^+ = 345.8$

1-(7-Chloro-quinolin-3-ylmethyl)-3-methoxymethyl-1H-pyrazole-4-carboxylic acid

To 1-(7-chloro-quinolin-3-ylmethyl)-3-methoxymethyl-1H-pyrazole-4-carboxylic acid methyl ester (53 mg, 0.153 mmol) in ethanol (10 mL) was added sodium hydroxide (61 mg, 1.53 mmol) and the reaction was heated at vigorous reflux for 4.5 hrs. The mixture was cooled and concentrated *in vacuo*. The residue was diluted with water (5 mL), adjusted to pH 3.6 with 2M HCl and extracted with 90% chlorofrom / 10% isopropyl alcohol (6 x 15 mL). The combined organic layers were dried (Na_2SO_4), filtered and concentrated *in vacuo* to give 1-(7-chloro-quinolin-3-ylmethyl)-3-methoxymethyl-1H-pyrazole-4-carboxylic acid as a pale yellow solid (50 mg, 98% yield).

 $[MH]^+ = 332$

1-(7-Chloro-quinolin-3-ylmethyl)-3-methoxymethyl-1H-pyrazole-4-carboxylic acid 2-fluoro-3-methoxybenzylamide

1-(7-Chloro-quinolin-3-ylmethyl)-3-methoxymethyl-1H-pyrazole-4-carboxylic acid (25 mg, 0.075 mmol) was taken up in DCM (5 mL) at 0 °C. To the solution was added triethylamine (52 μ L, 0.377 mmol), HOBt (12 mg, 0.09 mmol) and water soluble carbodiimide (20 mg, 0.106 mmol). After 15 min, 2-fluoro-3-methoxy-benzylamine hydrochloride (14 mg, 0.075 mmol) was added and the reaction allowed to warm to rt and stirred for over the weekend. The reaction was diluted with CHCl₃ (50 ml) and washed with sat.

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aq. NaHCO₃ (20 ml) followed by water (20 mL) and brine (20 mL). The organic layer was dried (MgSO₄), filtered and concentrated *in vacuo*. The crude product was purified by chromatography eluting with 6% Methanol / 94% DCM to give a white solid (16 mg, 45% yield) identified as 1-(7-chloro-quinolin-3-ylmethyl)-3-methoxymethyl-1H-pyrazole-4-carboxylic acid 2-fluoro-3-methoxy-benzylamide.

 $[MH]^+ = 469$

1H NMR (DMSO): 3.20 (3H, s), 3.82 (3H, s), 4.41 (2H, d, J = 5.8 Hz), 4.54 (2H, s), 5.57 (2H, s), 6.87-6.91 (1H, m), 7.03-7.09 (2H, m), 7.67 (1H, dd, J = 8.8, 2.1 Hz), 8.07 (1H, d, J = 8.8 Hz), 8.10 (1H, d, J = 1.9 Hz), 8.30 (1H, d, J = 1.7 Hz), 8.37 (1H, s), 8.39 (1H, t, J = 5.8 Hz), 8.92 (1H, d, J = 2.2 Hz)

Example 41

3-Fluoro-4-methoxy-pyridine-2-carbonitrile

To a large microwave vial, cyanocopper (1.304 g, 14.56 mmol) was added to a solution of 2-bromo-3-fluoro-4-methoxypyridine (1 g, 4.85 mmol) in DMF (5 mL). The reaction vial was sealed and heated to 100 °C for 16 hrs. The reaction mixture was diluted with water (20 mL) and EtOAc (20 mL). The thick suspension was sonicated and required additional water (40 mL) and EtOAc (2 x 50 mL) with sonication to break-up the solid precipitated. The combined layers were filtered through a plug of celite and the organic layer isolated, washed with brine (50 mL), dried over magnesium sulfate, filtered and the solvent removed under reduced pressure to give a pale green solid identified as the desired compound 3-fluoro-4-methoxy-pyridine-2-carbonitrile (100 mg, 0.578 mmol, 12 % yield)

(3-Fluoro-4-methoxy-pyridin-2-ylmethyl)-carbamic acid tert-butyl ester

3-Fluoro-4-methoxy-pyridine-2-carbonitrile (100 mg, 0.578 mmol) was dissolved in anhydrous methanol (10 mL, 247 mmol) and nickel chloride hexahydrate (14 mg, 0.058 mmol) was added followed by di-tert-butyl dicarbonate (255 mg, 1.157 mmol). The resulting pale green solution was cooled in an ice-salt bath to -5 °C and then sodium borohydride (153 mg, 4.05 mmol) was added portionwise maintaining the reaction temperature ~0 °C. The deep brown solution was left to stir at 0 °C and slowly allowed to warm to rt and then left to stir at rt for 3 hrs. The reaction mixture was evaporated to dryness at 40 °C to afford a black residue which was diluted with DCM (10 mL) and washed with sodium hydrogen carbonate (10 mL). An emulsion formed so the organics were separated *via* a phase separating cartridge and concentrated. The crude liquid was purified by chromatography eluting with EtOAc / iso-Hexane to afford

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the title compound, (3-fluoro-4-methoxy-pyridin-2-ylmethyl)-carbamic acid tert-butyl ester as a clear yellow oil (108 mg, 62 % yield)

 $[MH]^* = 257$

C-(3-Fluoro-4-methoxy-pyridin-2-yl)-methylamine hydrochloride salt

(3-Fluoro-4-methoxy-pyridin-2-ylmethyl)-carbamic acid tert-butyl ester (108mg, 0.358mmol) was taken up in iso-propyl alcohol (1 mL) and then HCl (6N in iso-propyl alcohol) (1 mL, 0.578 mmol) was added at rt and left to stir at 40 °C for 2 hours. The reaction mixture was concentrated under reduced pressure and then triturated with ether, sonicated and then decanted to give a cream coloured solid (75 mg, 55% yield) identified as C-(3-fluoro-4-methoxy-pyridin-2-yl)-methylamine hydrochloride salt.

 $[MH]^+ = 157$

3-Methoxymethyl-1-[4-(2-oxo-2H-pyridin-1-ylmethyl)-benzyl]-1H-pyrazole-4-carboxylic acid (3-fluoro-4-methoxy-pyridin-2-ylmethyl)-amide

3-(Methoxymethyl)-1-(4-((2-oxopyridin-1(2H)-yl)methyl)benzyl)-1H-pyrazole-4-carboxylic acid (75 mg, 0.212 mmol), C-(3-Fluoro-4-methoxy-pyridin-2-yl)-methylamine hydrochloride salt (49 mg, 0.212 mmol) and HATU (89 mg, 0.233 mmol) were suspended in anhydrous DCM (3 mL) to which triethylamine (177 μ L, 1.270 mmol) was added, sonicated and then left to stir at rt for 4 hours. The solvent was removed under reduced pressure and the resulting residue was quenched with ammonium chloride solution (5 mL). An off white solid resulted which was sonicated, filtered under reduced pressure washed with water and then placed in the vac oven at 40 °C overnight. The crude material was purified by chromatography eluting with (1% ammonia-methanol) /DCM to afford the 3-methoxymethyl-1-[4-(2-oxo-2H-pyridin-1-ylmethyl)-benzyl]-1H-pyrazole-4-carboxylic acid (3-fluoro-4-methoxy-pyridin-2-ylmethyl)-amide as a white solid (67 mg, 64% yield)

 $[MH]^+ = 492$

NMR (d⁶-DMSO) δ : 3.25 (3H, s), 3.92 (3H, s), 4.46-4.57 (4H, m), 5.07 (2H, s), 5.28 (2H, s), 6.22 (1H, td, J = 1.4, 6.7Hz), 6.39 (1H, ddd, J = 0.7, 1.4, 9.2Hz), 7.17-7.28 (5H, m), 7.41 (1H, ddd, J = 2.1, 6.6, 8.9Hz), 7.75 (1H, ddd, J = 0.7, 2.1, 6.8Hz), 8.21-8.29 (2H, m), 8.42 (1H, t, J = 5.4Hz)

Example 77

6-Bromo-2-fluoro-3-methoxy-benzoic acid

To a suspension of 2-fluoro-3-methoxybenzoic acid (10 g, 58.8 mmol) in acetic acid (50 mL) and water (50 mL) at rt was added bromine (6.06 mL, 118 mmol) dropwise. The reaction was then heated to 60 °C for 1 hr. The reaction was cooled to room temperature and the white precipitate was filtered. The solid was washed with water (200 mL) and iso-Hexane (50 mL) to give 6-bromo-2-fluoro-3-methoxy-benzoic acid as white solid, 12.098 g, 82 % yield.

 $[MH]^* = 249/251$

(6-Bromo-2-fluoro-3-methoxy-phenyl)-methanol

To a stirred solution of 6-bromo-2-fluoro-3-methoxy-benzoic acid (4.13 g, 16.58 mmol) in THF (20 mL) was added 4-methylmorpholine (1.914 mL, 17.41 mmol) and then isobutyl chloroformate (2.15 mL, 16.58 mmol). After 1 hour the reaction mixture was filtered to remove any salts generated, the solid was washed with additional THF (10 mL). The filtrate and washings were combined and cooled to 0 °C in an ice bath and then NaBH₄ (0.659 g, 17.41 mmol) in cold water (10 mL) was added in one portion (gas evolved), then allowed to warm to room temperature and stirred for 2 hours. The reaction mixture was quenched by careful addition of 1M HCl (30 mL) until acidic pH was obtained. The product was extracted into diethyl ether (150 mL). The organic layer was then washed with 2M NaOH (2 x 100 mL) to removed starting carboxylic acid, then acidified by washing with 1M HCl (100 mL), followed by brine (100 mL), dried over magnesium sulfate, filtered and solvent removed *in vacuo*. The crude product was purified by chromatography eluting with 0-50% EtOAc / iso-Hexane to afford (6-bromo-2-fluoro-3-methoxy-phenyl)-methanol as a colourless oil, 1.37g, 50% yield.

 $[MH]^{+} = 217/219$

1-Bromo-2-chloromethyl-3-fluoro-4-methoxy-benzene

A solution of (6-bromo-2-fluoro-3-methoxy-phenyl)-methanol (500 mg, 2.127 mmol) in anhydrous DCM (4 mL) was treated with triethylamine (415 μ L, 2.98 mmol), followed by methanesulfonyl chloride (214 μ L, 2.77 mmol). The mixture was allowed to stir at ambient temperature overnight. The reaction mixture was partitioned between DCM (50 mL) and sat. aq. NH₄Cl (40 mL). The organic layer was collected and the aqueous layer extracted with further DCM (40 mL). The combined organics were washed with water (40

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mL), brine (40 mL), dried (Na_2SO_4), filtered and concentrated. The crude material was purified by chromatography eluting with a gradient of 0 to 30% EtOAc/iso-Hexane to afford 1-bromo-2-chloromethyl-3-fluoro-4-methoxy-benzene (468 mg, 86% yield) as a white solid.

2-(6-Bromo-2-fluoro-3-methoxy-benzyl)-isoindole-1,3-dione

To a solution of 1-bromo-2-chloromethyl-3-fluoro-4-methoxy-benzene (460 mg, 1.815 mmol) in anhydrous DMF (5 mL) was added potassium phthalimide (403 mg, 2.178 mmol) and the mixture heated at 90 °C overnight. The mixture was diluted with EtOAc (75 mL) and washed with water (3 x 35 mL), brine (35 mL), dried (Na₂SO₄), filtered and concentrated to a yellow solid. The crude material was purified by flash chromatography, eluting with a gradient of 0 to 50% EtOAc / iso-Hexane. The desired product 2-(6-bromo-2-fluoro-3-methoxy-benzyl)-isoindole-1,3-dione was isolated as white needles, 372 mg, 56% yield.

 $[MH]^{+} = 364.0/366.0$

6-Bromo-2-fluoro-3-methoxy-benzylamine

A suspension of 2-(6-bromo-2-fluoro-3-methoxy-benzyl)-isoindole-1,3-dione (0.368 g, 1.011 mmol) in methanol (7.5 mL) was treated with hydrazine hydrate (0.064 mL, 1.314 mmol) and the reaction mixture heated at reflux for 5 hrs. The crude mixture was loaded directly onto an SCX column (8 g), washed with MeOH and eluted with 1% NH₃/MeOH to afford 6-bromo-2-fluoro-3-methoxy-benzylamine (204 mg, 85% yield) as a yellow oil

 $[MH]^{+}=233.9/235.9$

3-Methoxymethyl-1-[4-(2-oxo-2H-pyridin-1-ylmethyl)-benzyl]-1H-pyrazole-4-carboxylic acid 6-bromo-

2-fluoro-3-methoxy-benzylamide

A 25 mL flask was charged with 3-(methoxymethyl)-1-(4-((2-oxopyridin-1(2H)-yl)methyl)benzyl)-1H-pyrazole-4-carboxylic acid (130 mg, 0.368 mmol), (6-bromo-2-fluoro-3-methoxy-benzylamine (86 mg, 0.368 mmol), HATU (154 mg, 0.405 mmol), anhydrous DCM (3 mL) and anhydrous DMF (0.5 mL). N,N-Disopropylethylamine (160 μ L, 0.920 mmol) was added and the mixture allowed to stir at ambient temperature overnight. The reaction was concentrated under vacuum and redissolved in MeOH (4 mL) then purified by SCX, washing with MeOH, eluting with 1% NH₃/MeOH. The residue was further purified

chromatography eluting with a gradient of 0 to 10% MeOH (containing 0.3% NH₃) / DCM to afford 3-methoxymethyl-1-[4-(2-oxo-2H-pyridin-1-ylmethyl)-benzyl]-1H-pyrazole-4-carboxylic acid 6-bromo-2-fluoro-3-methoxy-benzylamide (191 mg, 89 % yield) as a white foam.

 $[MH]^+ = 569.2/571.2$

3-Methoxymethyl-1-[4-(2-oxo-2H-pyridin-1-ylmethyl)-benzyl]-1H-pyrazole-4-carboxylic acid 6-cyano-2-fluoro-3-methoxy-benzylamide

To a degassed solution of dicyanozinc (24.13 mg, 0.205 mmol) and 3-methoxymethyl-1-[4-(2-oxo-2H-pyridin-1-ylmethyl)-benzyl]-1H-pyrazole-4-carboxylic acid 6-bromo-2-fluoro-3-methoxy-benzylamide (90 mg, 0.158 mmol) in dimethylacetamide (1.2 mL) was added tetrakis(triphenylphosphine)palladium(0) (18.26 mg, 0.016 mmol) and the mixture heated to 110 °C overnight. The mixture was purified by chromatography eluting with a gradient of 0 to 10% (0.3% NH $_3$ /MeOH) / DCM to give 3-methoxymethyl-1-[4-(2-oxo-2H-pyridin-1-ylmethyl)-benzyl]-1H-pyrazole-4-carboxylic acid 6-cyano-2-fluoro-3-methoxybenzylamide as a pale yellow foam, 21 mg, 25% yield.

 $[MH]^+ = 516.3$

¹H NMR (d⁶-DMSO) δ: 3.21 (3H, s), 3.92 (3H, s), 4.47-4.55 (4H, m), 5.06 (2H, s), 5.27 (2H, s), 6.21 (1H, td, J = 6.7, 1.4Hz), 6.39 (1H, d, J = 9.1Hz), 7.17-7.31 (5H, m), 7.40 (1H, ddd, J = 8.9, 6.6, 2.1Hz), 7.67 (1H, dd, J = 8.6, 1.5Hz), 7.75 (1H, dd, J = 6.8, 2.1Hz), 8.20 (1H, s), 8.40 (1H, t, J = 5.2Hz)

Example 83

2-Chloro-3-fluoro-6-methoxy-benzaldehyde

To an ice-salt cooled flask containing methanol (8 mL, 198 mmol) was slowly added sodium hydride (1.318 g, 33.0 mmol). Once the addition was complete the cooling bath was removed and then allowed to warm to rt. In a second vessel (250 mL flask), 2-chloro-3,6-difluorobenzaldehyde (5 g, 27.5 mmol) was dissolved in a mixture of anhydrous methanol (60 mL, 1483 mmol) and THF (25 mL, 305 mmol) and warmed to 60 °C. Whilst at 60 °C the sodium methoxide solution was slowly added to the reaction mixture. Once the addition was complete the reaction mixture was left to heat at 60 °C overnight. The solvent was removed under reduced pressure to give a bright yellow solid which was quenched with water (100 mL), sonicated and then left to stir for 30 min. The resulting yellow solid was filtered, washed with water and then left to

dry under reduced pressure before transferring to a vacuum oven at 40 °C overnight. The crude was purified by chromatography eluting with EtOAc / iso-Hexane to afford the desired compound 2-chloro-3-fluoro-6-methoxy-benzaldehyde as an off white solid, 3.19 g, 61% yield.

 $[MH]^+ = 189/191$

2-Chloro-3-difluoromethyl-1-fluoro-4-methoxy-benzene

2-Chloro-3-fluoro-6-methoxy-benzaldehyde (2 g, 10.61 mmol) was dissolved in anhydrous DCM (30 mL, 466 mmol) under a nitrogen filled balloon and cooled in a salt-ice bath. To the solution diethylaminosulfur trifluoride (4.20 mL, 31.8 mmol) was added dropwise to form a yellow solution. The reaction was stirred at 0 °C for 5 min and then the cooling bath was removed and the reaction allowed to warm to rt overnight. The reaction mixture was slowly quenched into saturated sodium hydrogen carbonate (100 mL), the organic layer was separated, washed with brine (100 mL) and dried using a phase separating cartridge. The solvent was removed under reduced pressure to give an orange oil, which was purified by chromatography eluting with EtOAc / iso-Hexane. 2-Chloro-3-difluoromethyl-1-fluoro-4-methoxy-benzene (1.0g, 43% yield) was isolated as a pale yellow oil which solidified on standing.

2-Difluoromethyl-6-fluoro-3-methoxy-benzonitrile

2-Chloro-3-difluoromethyl-1-fluoro-4-methoxy-benzene (1g, 4.75 mmol) was dissolved in anhydrous dimethylacetamide (7 mL, 74.7 mmol) to which dicyanozinc (0.558 g, 4.75 mmol) was added. Nitrogen was bubbled into the reaction mixture for 20 min then, tris(dibenzylideneacetone)dipalladium(0) (0.087 g, 0.095 mmol) and [1,1'bis(diphenylphosphino)ferrocene]dichloropalladium(II) complex with dichloromethane (0.139 g, 0.190 mmol) were added. The reaction mixture was heated at 150 °C overnight under an atmosphere of nitrogen. The reaction mixture was quenched into water (100 mL) and then extracted with EtOAc (3 x 200 mL). The combined organics were washed with brine (3 x 200 mL), dried over magnesium sulphate, filtered and evaporated under reduced pressure to give a dark brown oil. The crude product was purified by chromatography eluting with EtOAc / iso-Hexane to afford 2-difluoromethyl-6-fluoro-3-methoxy-benzonitrile (182 mg, 17 % yield) as a brown solid.

 $[MH]^+ = 202.1$

2-(Difluoromethyl)-6-fluoro-3-methoxy-benzonitrile (182 mg, 0.778 mmol) was dissolved in anhydrous methanol (5 mL, 124 mmol) to which Nickel Chloride hexahydrate (19 mg, 0.078 mmol) was added followed by di-tert-butyl dicarbonate (343 mg, 1.556 mmol). The resulting pale green solution was cooled in an ice-salt bath to -5 °C and then sodium borohydride (206 mg, 5.45 mmol) was added portionwise, maintaining the reaction temperature ~0 °C. The deep brown solution was left to stir at 0 °C and slowly allowed to warm to rt overnight. The solvent was removed under reduced pressure and then partitioned between DCM (10 mL) and water (10 mL). The aqueous was re-extracted with DCM (2 x 10 mL). The combined organics were washed brine (10 mL), dried using a phase separating cartridge and concentrated *in vacuo*. The crude product was purified by chromatography eluting with EtOAc / iso-Hexane to give (2-difluoromethyl-6-fluoro-3-methoxy-benzyl)-carbamic acid tert-butyl ester as a white waxy solid (158 mg, 63% yield).

 $[MNa]^+ = 328$

2-Difluoromethyl-6-fluoro-3-methoxy-benzylamine hydrochloride

(2-Difluoromethyl-6-fluoro-3-methoxy-benzyl)-carbamic acid tert-butyl ester (158 mg, 0.492 mmol) was taken up in iso-propyl alcohol (1 mL) and then HCl (6N in iso-propyl alcohol) (1 mL, 0.778 mmol) was added and stirred at 40 °C for 1 hour. An off white precipitate formed and was collected *via* vacuum filtration and washed with iso-propyl alcohol (1 mL) to give the desired product 2-difluoromethyl-6-fluoro-3-methoxy-benzylamine hydrochloride as an off white solid (43 mg, 22% yield).

 $[MH]^+ = 206$

3-Methoxymethyl-1-[4-(2-oxo-2H-pyridin-1-ylmethyl)-benzyl]-1H-pyrazole-4-carboxylic acid 2-difluoromethyl-6-fluoro-3-methoxy-benzylamide

3-(Methoxymethyl)-1-(4-((2-oxopyridin-1(2H)-yl)methyl)benzyl)-1H-pyrazole-4-carboxylic acid (58 mg, 0.162 mmol), 2-difluoromethyl-6-fluoro-3-methoxy—benzylamine hydrochloride salt (40.2 mg, 0.163 mmol) and HATU (68.3 mg, 0.180 mmol) were suspended in anhydrous DCM (3 mL) to which triethylamine (91 μ L, 0.653 mmol) was added, sonicated and then left to stir at rt for 3 hrs. The solvent was removed under reduced pressure and the residue quenched with ammonium chloride solution (5 mL), resulting in a pale brown solid which was left to stir rt over the weekend. The solid was filtered under reduced pressure washed with water, dried under reduced pressure and then placed in the desiccator at 50 °C for 3 hours. The desired product, 3-,ethoxymethyl-1-[4-(2-oxo-2H-pyridin-1-ylmethyl)-benzyl]-1H-pyrazole-4-

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carboxylic acid 2-difluoromethyl-6-fluoro-3-methoxy-benzylamide (74 mg, 83 % yield) was isolated as a free flowing cream solid.

 $[MH]^{+} = 541.2$

NMR (d⁶-DMSO) δ 3.12 (3H, s), 3.83 (3H, s), 4.43 (2H, s), 4.52-4.59 (2H, m), 5.05 (2H, s), 5.25 (2H, s), 6.21 (1H, td, J = 1.4, 6.7Hz), 6.39 (1H, dt, J = 1.0, 9.2Hz), 7.15-7.44 (8H, m), 7.75 (1H, ddd, J = 0.7, 2.1, 6.8Hz), 8.08 (1H, t, J = 4.9Hz), 8.22 (1H, s)

Example 126

5-Bromomethyl-2-fluoro-pyridine

2-Fuoro-5-methylpyridine (5.0 g, 45 mmol) was dissolved in 1,2-dichloroethane (120 mL). To this solution was added N-bromosuccinimide (9.61 g, 54 mmol) and azobisisobutyronitrile (739 mg, 4.5 mmol). The reaction was stirred at reflux (95 °C) for 5 hours then the reaction was cooled to rt. The reaction mixture was diluted with CHCl₃ (50 mL) and was washed with sat. NaHCO₃ (1 x 20 mL), water (1 x 20 mL), followed by brine (1 x 20 mL), dried (Na₂SO₄) and filtered through PS paper and evaporated *in vacuo*. The residue was purified by chromatography (silica), eluting with 10% EtOAc, 90% Pet. Ether, to give a colourless oil identified as 5-bromomethyl-2-fluoro-pyridine, 5.9g, 69% yield.

 $[MH]^+ = 191.76$

NMR (CDCl3): 4.46 (2H, s), 6.93 (1H, dd, J = 8.4, 3.0 Hz), 7.84 (1H, td, J = 7.8, 2.6 Hz), 8.23 (1H, d, J = 2.2 Hz)

1-(6-Fluoro-pyridin-3-ylmethyl)-3-trifluoromethyl-1H-pyrazole-4-carboxylic acid ethyl ester

Ethyl 3-trifluoromethyl-1H-pyrazole-4-carboxylate (1.57g, 7.53mmol) was dissolved in DMF (20 mL), 5-Bromomethyl-2-fluoro-pyridine (1.3g, 6.84mmol) and cesium carbonate (6.69g, 20.53mmol) were added. The reaction mixture was stirred at 50 °C for 18 hours after which time the reaction mixture was diluted with EtOAc (100 mL), this solution was washed with water (1 x 30 mL), brine (1 x 30 mL), dried (Na_2SO_4) and filtered through PS paper and evaporated *in vacuo*. The residue was purified by chromatography (silica), eluting with 85% Pet. Ether, 15% EtOAc to give a white foamy solid (1.26 g, 58% yield) identified as 1-(6-fluoro-pyridin-3-ylmethyl)-3-trifluoromethyl-1H-pyrazole-4-carboxylic acid ethyl ester.

 $[MMeCN]^* = 358.75$

1-(6-Fluoro-pyridin-3-ylmethyl)-3-trifluoromethyl-1H-pyrazole-4-carboxylic acid

1-(6-Fluoro-pyridin-3-ylmethyl)-3-trifluoromethyl-1H-pyrazole-4-carboxylic acid ethyl ester (1.26 g, 3.97 mmol) was dissolved in THF (50 mL) and water (5 mL) then lithium hydroxide (476 mg, 19.86 mmol) were added. The reaction mixture was stirred at 50 °C for 18 hrs after which time the solvent was concentrated *in vacuo* and the residue taken up in EtOAc (50 mL). The aqueous layer was extracted and acidified with 1M HCl to pH2 and extracted with CHCl₃ (3 x 50 mL). The combined extracts were washed with water (1 x 30 mL) followed by brine (1 x 30 mL), dried (Na₂SO₄) and filtered through PS paper and evaporated *in vacuo*. The residue was purified by chromatography (silica), eluting with 3%MeOH, 97% CHCl₃, to give a colourless oil identified as 1-(6-fluoro-pyridin-3-ylmethyl)-3-trifluoromethyl-1H-pyrazole-4-carboxylic acid, 946 mg, 82% yield.

 $[MH]^{+} = 289.82$

1-(6-Pyrrolidin-1-yl-pyridin-3-ylmethyl)-3-trifluoromethyl-1H-pyrazole-4-carboxylic acid

1-(6-Fluoro-pyridin-3-ylmethyl)-3-trifluoromethyl-1H-pyrazole-4-carboxylic acid (300 mg, 1.04 mmol) was dissolved in dioxane (25 mL) and pyrrolidine (2 mL) and the reaction mixture was stirred at 80 °C for 18 hrs. Upon completion the reaction mixture was diluted with EtOAc (100 mL), this solution was washed with water (1 x 30 mL), brine (1 x 30 mL), dried (Na_2SO_4) and filtered through PS paper and evaporated *in vacuo*. The residue was purified by chromatography eluting with 1% AcOH, 9% MeOH, 90% CHCl₃ to give a white foamy solid (267 mg, 76% yield) identified as 1-(6-pyrrolidin-1-yl-pyridin-3-ylmethyl)-3-trifluoromethyl-1H-pyrazole-4-carboxylic acid.

 $MH]^+ = 340.72$

1-(6-Pyrrolidin-1-yl-pyridin-3-ylmethyl)-3-trifluoromethyl-1H-pyrazole-4-carboxylic acid 2-fluoro-3-methoxy-benzylamide

2-Fluoro-3-methoxy-benzylamine hydrochloride (56 mg, 0.294 mmol) and 1-(6-pyrrolidin-1-yl-pyridin-3-ylmethyl)-3-trifluoromethyl-1H-pyrazole-4-carboxylic acid (100 mg, 0.294 mmol) were combined and taken up in DCM (10 mL) at 0 °C. To the solution was added HOBt (48 mg, 0.353 mmol), triethylamine (205 μ L, 1.469 mmol) and water soluble carbodiimide (79 mg, 0.411 mmol). The reaction was allowed to warm to rt and stirred for 3 days. The reaction was diluted with CHCl₃ (50 mL) and sat. aq. NaHCO₃ (20 mL) was

added. The organic layer was separated, dried (MgSO₄), filtered and concentrated. The crude product was purified by chromatography eluting with MeOH / DCM to afford the desired product 1-(6-pyrrolidin-1-yl-pyridin-3-ylmethyl)-3-trifluoromethyl-1H-pyrazole-4-carboxylic acid 2-fluoro-3-methoxy-benzylamide as a white solid, 95 mg, 68% yield.

$$[MH]^+ = 478.0$$

¹H NMR (DMSO) δ: 1.90-1.94 (4H,m), 3.31-3.37 (4H, m), 3.82 (3H, s), 4.39 (2H, d, J = 5.6Hz), 5.26 (2H, s), 6.44 (1H, d, J = 8.6Hz), 6.85-6.90 (1H, m), 7.03-7.10 (2H, m), 7.50 (1H, dd, J = 8.8, 2.4Hz), 8.14 (1H, d, J = 2.3Hz), 8.36 (1H, d, J = 0.6Hz), 8.74 (1H, t, J = 5.8Hz)

Table 1

$$R_{17}$$
 R_{17}
 R_{17}
 R_{16}
 R_{17}
 R_{16}
 R_{17}
 R_{16}

Example number	R14	R15	R16	R17	18	Free Base MW	[M+H] ⁺
4	F	OMe	Н	Н	Н	501.5	501.8
5	H	OMe	Н	Н	Н	483.5	484.1
6	Н	OEt	H	Н	Н	497.5	497.6
7	Н	OCF₃	Н	Н	Н	537.5	537.8
8	Н	Н	Me	Н	Н	467.5	468.1
9	Н	OMe	Н	Н	F	501.5	501.9
10	OMe	Н	OMe	Н	Н	513.5	513.8
11	F	Н	OMe	Н	F	519.5	520.0

Example number	R14	R15	R16	R17	18	Free Base MW	[M+H] ⁺
12	CF ₃	H	OMe	Н	Н	551.5	551.8
13	F	Н	Н	Н	F	489.4	490.0
14		Н	Н	Н	Cl	505.9	506.0
15	F	Н	Н	Н	CF₃	539.4	540.0
16	F	Н	Cl	Н	F	523.9	523.9
17	F	Н	CI	Н	Н	505.9	506.0
18	F	Cl	Н	Н	F	523.9	523.9
19	F	Cl	Н	Н	Н	505.9	505.9
20	F	Н	Н	Cl	Н	505.9	505.8
21	F	Cl	Н	Н	CF₃	573.9	573.8
22	Cl	Н	Н	Н	CI	522.4	593.9
23	Н	Н	CI	Н	CF ₃	555.9	555.8
24	Me	Н	Me	Н	Н	481.5	481.9
25	Me	Н	Н	Н	Me	481.5	481.9
26	Me	Н	Me	Н	Me	495.5	496.1
27	Me	F	Н	Н	Н	485.5	485.9
28	F	Н	Me	Н	Н	485.5	486.1

Table 2

$$H_3C$$

Example number	R14	R15	Free Base MW	[M+H] ⁺
29	F	Н	472.4	472.9
30	Н	Cl	488.9	488.9

Table 3

Example number	R14	R15	R16	R18	Free Base MW	[M+H]*
31	CF ₃	Н	Н	Н	511.5	512.0
32	Н	Н	Me	Н	457.5	458.3
33	F	OMe	Н	Н	491.5	

Example number	R14	R15	R16	R18	Free Base MW	[M+H] ⁺
34	NHCOMe	Н	Н	Н	500.5	
35	F	Н	Н	CF ₃	529.5	
36	H	Н	Н	CF₃	511.5	512.3
37	CF ₃	Н	Н	Н	511.5	512.0
38	F	Н	H	Н	461.5	
39	Н	Н	Me	Н	457.5	458.3

Table 4

Example number	R14	R15	R17	Free Base MW	[M+H] ⁺
40	Н	Н	OMe	473.5	474.0
41	F	OMe	Н	491.5	492.0
42	F	Н	OMe	491.5	492.3

Table 5

Example number	R14	R16	Free Base MW
43	CI	Н	483.0
44	CI	Me	497.0

Table 6

Example number	Α	Free Base MW	[M+H]*
45		533.0	533.0

Example number	А	Free Base MW	[M+H] ⁺
46		496.0	495.9
47	H ₃ C	520.0	520.0

Table 7

Example number	R5	R14	R15	R16	R17	R18	Free Base MW	[M+H] [†]
48	~	CONH₂	Н	Н	Н	Н	481.5	482.0
49		Н	CONH₂	Н	Н	Н	481.5	481.6

Example number	R5	R14	R15	R16	R17	R18	Free Base MW	[M+H] ⁺
50		Н	Н	CONH₂	Н	Н	481.5	481.7
51	CF3	F	H	H	Н	CF3	552.4	552.9
52		F	OMe	Н	Н	H	486.5	486.8
53	CH₂OMe	F	OMe	Н	Н	Н	490.5	491.0
54	CH₂OMe	F	OMe	Н	Н	OMe	520.6	521.2
55	NHMe	F	ОМе	Н	Н	Н	475.5	
56	NHCH₂CH₃	F	OMe	Н	Н	Н	489.5	
57	NHCH(Me) ₂	F	OMe	Н	Н	Н	503.6	
58	NH ₂	H	Н	OCF₃	Н	Н	497.5	497.6
59	NMe ₂	F	OMe	Н	Н	Н	489.5	490.2
60	NH ₂	F	ОМе	H	Н	F	479.5	
61	NHMe	F	OMe	Н	Н	F	493.5	
62	CH₂OMe	F	Н	Н	Н	Н	460.5	461.2
63	CH₂OMe	CF ₃	Н	Н	Н	Н	510.5	511.3
64	CH₂OMe	F	Н	Н	OMe	Н	490.5	491.3
65	CH₂OMe	F	Н	Me	Н	Н	474.5	475.3
66	CH₂OMe	F	OMe	H	Н	F	508.5	509.0
67	CH₂OMe	Н	Cl	H	OMe	Н	507.0	507.0
68	CH₂OMe	CHF ₂	H	Н	Н	Н	492.5	493.0
69	CH₂OMe	CHF ₂	OMe	Н	Н	Н	522.5	523.0
70	NH ₂	F	Н	Н	Н	CF ₃	499.5	500.0
71	NHCOMe	F	ОМе	Н	Н	Н	503.5	504.0

Example number	R5	R14	R15	R16	R17	R18	Free Base MW	[M+H] ⁺
72	NMeCOMe	F	OMe	Н	н	Н	517.6	518.0
73	CH₂OMe	F	CI	Н	Н	F	512.9	513.2
74	CH₂OMe	F	ОМе	Me	Н	Н	504.6	
75	CH₂OMe	CN	Н	Н	ОМе	Н	497.5	
76	CH₂OMe	CN	Н	Н	CI	Н	502.0	502.2
77	CH₂OMe	F	OMe	Н	н	CN	515.5	516.3
78	CH₂OMe	CF₃	OMe	Н	Н	Н	540.5	541.1
79	CH₂OMe	CF₃	Н	H	OMe	Н	540.5	541.1
80	CH₂OMe	CHF ₂	Н	Н	Н	F	510.5	511.2
81	CH₂OMe	CHF ₂	Н	Н	OMe	Н	522.5	523.1
82	CH₂OMe	CHF ₂	Н	Н	ОМе	F	540.5	
83	CH₂OMe	CHF ₂	ОМе	Н	Н	F	540.5	541.2
84	CH₂OMe	Cl	Н	Н	OMe	Н	507.0	
85	CH₂OMe	CONH₂	Н	Н	Н	F	503.5	504.3
86	CH₂OMe	CONH₂	Н	Н	OMe	Н	515.6	516.3
87	CH ₂ OMe	соон	Н	Н	н	Н	486.5	487.1
88	CH₂OMe	1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Н	Н	Н	F	528.5	
89	CH₂OMe	Н	F-272	Н	1-1	F	528.5	
90	CH₂OMe	F	OCHF ₂	Н	Н	Н	526.5	527.2
91	CH₂OMe	Н	OCHF ₂	Н	Н	Н	508.5	509.2
92	CH₂OMe	F	Н	Н	Н	OCHF ₂	526.5	527.3
93	CH₂OMe	F	Н	Me	н	CHF ₂	524.5	

Example number	R5	R14	R15	R16	R17	R18	Free Base MW	[M+H] ⁺
94	CH₂OMe	F	Н	Н	F	Н	478.5	479.0
95	CH₂OMe	Н	OMe	Н	F	Н	490.5	491.3
96	CH₂OMe	-	OMe	Н	F	Н	508.5	509.0
97	CH₂OMe	-	Н	Н	Н	Me	474.5	475.0
98	CH₂OMe	F	ОМе	Н	Cl	Н	525.0	
99	CH₂OMe	F	OMe	Н	Н	Cl	525.0	525.0
100	CH₂OMe	F	OMe	Н	Н	CF3	558.5	
101	CH₂OMe	F	Н	Me	Н	CF3	542.5	
102	CH₂OMe	F	Н	Cl	Н	CF3	562.9	
103	CN	F	OMe	Н	Н	Н	471.5	
129	CH₂OMe	F	ОН	Н	Н	Н	476.5	477.0
130	NH₂	F	ОН	Н	Н	Н	447.5	447.9
131	CH₂OMe	СООМе	Н	Н	Н	Н	500.6	501.1
132	CH₂OMe	F	CH₂Me	Н	Н	Н	488.6	489.3
133	CH₂OMe	Н	OMe	Н	Н	Н	472.5	473.1

Table 8

Example number	А	R5	R18	Free Base MW	[M+H] [†]
104		CH₂OMe	Н	491.5	492.0
105	F	CH₂OMe	F	526.5	
106	H ₃ C	CH₂OMe	F	522.5	523.0
107	F	CH₂OMe	Н	508.5	

Example number	A	R5	R18	Free Base MW	[M+H] ⁺
108	F	CH₂OMe	F	526.5	527.0
109	H ₃ C O	CH₂OMe	F	552.6	553.0
110	H ₃ C O CH ₃	CH₂OMe	Н	507.6	
111	s	CH₂OMe	Н	482.5	
112	s	CH₂OMe	Н	496.6	

Example number	А	R5	R18	Free Base MW	[M+H] [†]
113	H ₃ C	NH ₂	Н	448.5	
134	H ₃ C	CH₂OMe	CN	502.5	
135	N N N N N N N N N N N N N N N N N N N	CH₂OMe	CN	479.5	
136	N N N N N N N N N N N N N N N N N N N	CF ₃	CN	503.5	
114		CH₂OMe	Н	508.5	
115	CI	CH₂OMe	Н	525.0	

Example number	А	R5	R18	Free Base MW	[M+H] [†]
116	HN CH ₃	CH₂OMe	F	444.5	
117	H ₃ C NH	CH₂OMe	Н	431.4	
118	FF	CH₂OMe	Н	465.4	
119	FF	CH₂OMe	Н	467.4	

Table 9

Example number	R5	Free Base MW	[M+H] ⁺
121	Me	460.5	461.0
122	NH₂	461.5	
123		486.5	
124	CF₃	514.5	515.0
125	CH₂OMe	490.5	

Table 10

Example number	R5	R18	Free Base MW	[M+H] ⁺
126	CF ₃	Н	477.5	478.0
127	NH₂	Н	424.5	
128	CH₂OMe	<u> </u>	453.5	
137	CH₂OMe	CN	478.5	
138	CF ₃	CN	502.5	

Table 11

Example number	Т	Free Base MW	[M+H]*
139	Me	519.0	519.1
140	Н	505.0	505.1

Table 12: Compound names

Example Number	Name
4	N-[(2-fluoro-3-methoxyphenyl)methyl]-1-({4-[(4-methylpyrazol-1-yl)methyl]phenyl}methyl)-3-(trifluoromethyl)pyrazole-4-carboxamide
5	N-[(3-methoxyphenyl)methyl]-1-({4-[(4-methylpyrazol-1-yl)methyl]phenyl}methyl)-3- (trifluoromethyl)pyrazole-4-carboxamide
6	N-[(3-ethoxyphenyl)methyl]-1-({4-[(4-methylpyrazol-1-yl)methyl]phenyl}methyl)-3- (trifluoromethyl)pyrazole-4-carboxamide
7	1-({4-[(4-methylpyrazol-1-yl)methyl]phenyl}methyl)-N-{[3- (trifluoromethoxy)phenyl]methyl}-3-(trifluoromethyl)pyrazole-4-carboxamide
8	N-[(4-methylphenyl)methyl]-1-({4-[(4-methylpyrazol-1-yl)methyl]phenyl}methyl)-3- (trifluoromethyl)pyrazole-4-carboxamide

Example	
Number	Name
	N-[(2-fluoro-5-methoxyphenyl)methyl]-1-({4-[(4-methylpyrazol-1-
9	yl)methyl]phenyl}methyl)-3-(trifluoromethyl)pyrazole-4-carboxamide
10	N-[(2,4-dimethoxyphenyl)methyl]-1-({4-[(4-methylpyrazol-1-
10	yl)methyl]phenyl}methyl)-3-(trifluoromethyl)pyrazole-4-carboxamide
11	N-[(2,6-difluoro-4-methoxyphenyl)methyl]-1-({4-[(4-methylpyrazol-1-
at at	yl)methyl]phenyl}methyl)-3-(trifluoromethyl)pyrazole-4-carboxamide
12	N-{[4-methoxy-2-(trifluoromethyl)phenyl]methyl}-1-({4-[(4-methylpyrazol-1-
12	yl)methyl]phenyl}methyl)-3-(trifluoromethyl)pyrazole-4-carboxamide
13	N-[(2,6-difluorophenyl)methyl]-1-({4-[(4-methylpyrazol-1-yl)methyl]phenyl}methyl)-
	3-(trifluoromethyl)pyrazole-4-carboxamide
14	N-[(2-chloro-6-fluorophenyl)methyl]-1-({4-[(4-methylpyrazol-1-
17	yl)methyl]phenyl}methyl)-3-(trifluoromethyl)pyrazole-4-carboxamide
15	N-{[2-fluoro-6-(trifluoromethyl)phenyl]methyl}-1-({4-[(4-methylpyrazol-1-
13	yl)methyl]phenyl}methyl)-3-(trifluoromethyl)pyrazole-4-carboxamide
16	N-{(4-chloro-2,6-difluorophenyl)methyl]-1-{{4-[(4-methylpyrazol-1-
	yl)methyl]phenyl}methyl)-3-(trifluoromethyl)pyrazole-4-carboxamide
17	N-[(4-chloro-2-fluorophenyl)methyl]-1-({4-[(4-methylpyrazol-1-
1	yl)methyl]phenyl}methyl)-3-(trifluoromethyl)pyrazole-4-carboxamide
18	N-[(3-chloro-2,6-difluorophenyl)methyl]-1-({4-[(4-methylpyrazol-1-
	yl)methyl]phenyl}methyl)-3-(trifluoromethyl)pyrazole-4-carboxamide
19	N-[(3-chloro-2-fluorophenyl)methyl]-1-({4-[(4-methylpyrazol-1-
	yl)methyl]phenyl}methyl)-3-(trifluoromethyl)pyrazole-4-carboxamide
20	N-[(5-chloro-2-fluorophenyl)methyl]-1-({4-[(4-methylpyrazol-1-
20	yl)methyl]phenyl}methyl)-3-(trifluoromethyl)pyrazole-4-carboxamide
21	N-{[3-chloro-2-fluoro-6-(trifluoromethyl)phenyl]methyl}-1-({4-[(4-methylpyrazol-1-
	yl)methyl]phenyl}methyl)-3-(trifluoromethyl)pyrazole-4-carboxamide
22	N-[(2,6-dichlorophenyl)methyl]-1-({4-[(4-methylpyrazol-1-yl)methyl]phenyl}methyl)-
22	3-(trifluoromethyl)pyrazole-4-carboxamide
23	N-{[5-chloro-2-(trifluoromethyl)phenyl]methyl}-1-({4-[(4-methylpyrazol-1-
2.5	yl)methyl]phenyl}methyl)-3-(trifluoromethyl)pyrazole-4-carboxamide
	<u> </u>

Number 24 N-[(2,4-dimethylphenyl)methyl]-1-({4-[(4-methylpyrazol-1-yl)methyl]phenyl}methyl 3-(trifluoromethyl)pyrazole-4-carboxamide 25 N-[(2,6-dimethylphenyl)methyl]-1-({4-[(4-methylpyrazol-1-yl)methyl]phenyl}methyl 3-(trifluoromethyl)pyrazole-4-carboxamide 26 1-({4-[(4-methylpyrazol-1-yl)methyl]phenyl}methyl)-3-(trifluoromethyl)-N-[(2,4,6-trimethylphenyl)methyl]pyrazole-4-carboxamide 27 N-[(3-fluoro-2-methylphenyl)methyl]-1-({4-[(4-methylpyrazol-1-yl)methyl]phenyl}methyl)-3-(trifluoromethyl)pyrazole-4-carboxamide 28 N-[(2-fluoro-4-methylphenyl)methyl]-1-({4-[(4-methylpyrazol-1-yl)methyl]phenyl}methyl)-3-(trifluoromethyl)pyrazole-4-carboxamide 29 N-[(3-fluoropyridin-2-yl)methyl]-1-({4-[(4-methylpyrazol-1-yl)methyl]phenyl}methyl)-1-({4-[(4-methylpyrazol-1-yl)methyl]phenyl}methyl)-1-({4-[(4-methylpyrazol-1-yl)methyl]phenyl}methyl)-1-({4-[(4-methylpyrazol-1-yl)methyl]phenyl}methyl)-1-({4-[(4-methylpyrazol-1-yl)methyl]phenyl}methyl)-1-({4-[(4-methylpyrazol-1-yl)methyl]phenyl}methyl)-N-[(4-methylpyrazol-1-yl)methyl]-N-[(4-methylpyra	Example	
N-[(2,4-dimethylphenyl)methyl]-1-{(4-[(4-methylpyrazol-1-yl)methyl]phenyl}methyl]-1-{(4-[(4-methylpyrazol-1-yl)methyl]phenyl]methyl]-1-{(4-[(4-methylpyrazol-1-yl)methyl]phenyl]methyl]-1-{(4-[(4-methylpyrazol-1-yl)methyl]phenyl]methyl]-3-{trifluoromethyl)pyrazole-4-carboxamide 26	Number	Name
3-(trifluoromethyl)pyrazole-4-carboxamide 25 N-[(2,6-dimethylphenyl)methyl]-1-({4-[(4-methylpyrazol-1-yl)methyl]phenyl}methyl)-3-(trifluoromethyl)pyrazole-4-carboxamide 26 1-{{4-[(4-methylpyrazol-1-yl)methyl]phenyl}methyl)-3-(trifluoromethyl)-N-[(2,4,6-trimethylphenyl)methyl]pyrazole-4-carboxamide 27 N-[(3-fluoro-2-methylphenyl)methyl]-1-({4-[(4-methylpyrazol-1-yl)methyl]phenyl}methyl)-3-(trifluoromethyl)pyrazole-4-carboxamide 28 N-[(2-fluoro-4-methylphenyl)methyl]-1-({4-[(4-methylpyrazol-1-yl)methyl]phenyl}methyl)-3-(trifluoromethyl)pyrazole-4-carboxamide 29 N-[(3-fluoropyridin-2-yl)methyl]-1-({4-[(4-methylpyrazol-1-yl)methyl]phenyl}methyl)-1-({4-[(4-methylpyrazol-1-yl)methyl]phenyl}methyl)-1-({4-[(4-methylpyrazol-1-yl)methyl]phenyl}methyl)-1-({4-[(4-methylpyrazol-1-yl)methyl]phenyl}methyl)-1-(trifluoromethyl)pyrazole-4-carboxamide 30 N-[(4-chloropyridin-2-yl)methyl]-1-({4-[(4-methylpyrazol-1-yl)methyl]phenyl}methyl)-N-[(4-(trifluoromethyl)pyrazole-4-carboxamide 31 3-(methoxymethyl)-1-((4-[(2-oxopyridin-1-yl)methyl]-1-({4-[(2-oxopyridin		N (/2 / disable laber 1) - she ii 1 / (// // - she laber 1 / disable ii le se ii) - she ii
3-(trifluoromethyl)pyrazole-4-carboxamide 1-({4-[(4-methylpyrazol-1-yl)methyl]phenyl}methyl)-3-(trifluoromethyl)-N-[(2,4,6-trimethylphenyl)methyl]pyrazole-4-carboxamide N-[(3-fluoro-2-methylphenyl)methyl]-1-({4-[(4-methylpyrazol-1-yl)methyl]phenyl}methyl)-3-(trifluoromethyl)pyrazole-4-carboxamide N-[(2-fluoro-4-methylphenyl)methyl]-1-({4-[(4-methylpyrazol-1-yl)methyl]phenyl}methyl)-3-(trifluoromethyl)pyrazole-4-carboxamide N-[(3-fluoropyridin-2-yl)methyl]-1-({4-[(4-methylpyrazol-1-yl)methyl]phenyl}methyl)-1-(trifluoromethyl)pyrazole-4-carboxamide N-[(4-chloropyridin-2-yl)methyl]-1-{(4-[(4-methylpyrazol-1-yl)methyl]phenyl}methyl)-1-(trifluoromethyl)pyrazole-4-carboxamide 3-(methoxymethyl)-1-({4-[(2-oxopyridin-1-yl)methyl]phenyl}methyl)-N-[[4-(trifluoromethyl)pyridin-3-yl]methyl)pyrazole-4-carboxamide 3-(methoxymethyl)-N-[(6-methylpyridin-3-yl)methyl]-1-({4-[(2-oxopyridin-1-yl)methyl]-1-({4-[(2-oxopyridin-	24	
trimethylphenyl)methyl]pyrazole-4-carboxamide N-[(3-fluoro-2-methylphenyl)methyl]-1-({4-[(4-methylpyrazol-1-yl)methyl]phenyl}methyl)-3-(trifluoromethyl)pyrazole-4-carboxamide N-[(2-fluoro-4-methylphenyl)methyl]-1-({4-[(4-methylpyrazol-1-yl)methyl]phenyl}methyl)-3-(trifluoromethyl)pyrazole-4-carboxamide N-[(3-fluoropyridin-2-yl)methyl]-1-({4-[(4-methylpyrazol-1-yl)methyl]phenyl}methyl)-1-(4-[(4-methylpyrazol-1-yl)methyl]phenyl}methyl)-1-(4-fluoromethyl)pyrazole-4-carboxamide N-[(4-chloropyridin-2-yl)methyl]-1-(4-[(4-methylpyrazol-1-yl)methyl]phenyl}methyl)-1-(4-(trifluoromethyl)pyrazole-4-carboxamide 3-(methoxymethyl)-1-(4-[(2-oxopyridin-1-yl)methyl]phenyl}methyl)-N-[(4-(trifluoromethyl)pyridin-3-yl]methyl)pyrazole-4-carboxamide 3-(methoxymethyl)-N-[(6-methylpyridin-3-yl)methyl]-1-(4-[(2-oxopyridin-1-yl)methyl]phenyl}methyl)pyrazole-4-carboxamide N-[(4-fluoro-5-methoxypyridin-3-yl)methyl]-3-(methoxymethyl)-1-({4-[(2-oxopyridin-3-yl)methyl]-3-(methoxymethyl)-1-(4-[(2-oxopyridin-3-yl)methyl]-3-(methoxymethy	25	N-[(2,6-dimethylphenyl)methyl]-1-({4-[(4-methylpyrazol-1-yl)methyl]phenyl}methyl)-3-(trifluoromethyl)pyrazole-4-carboxamide
yl)methyl]phenyl}methyl)-3-(trifluoromethyl)pyrazole-4-carboxamide N-[(2-fluoro-4-methylphenyl)methyl]-1-({4-[(4-methylpyrazol-1-yl)methyl]phenyl}methyl)-3-(trifluoromethyl)pyrazole-4-carboxamide N-[(3-fluoropyridin-2-yl)methyl]-1-({4-[(4-methylpyrazol-1-yl)methyl]phenyl}methyl)-1-({4-[(4-methylpyrazol-1-yl)methyl]phenyl}methyl)-1-({4-[(4-methylpyrazol-1-yl)methyl]phenyl}methyl)-1-({4-[(4-methylpyrazol-1-yl)methyl]phenyl}methyl)-1-({4-[(2-oxopyridin-1-yl)methyl]phenyl}methyl)-N-[(4-(trifluoromethyl)pyridin-3-yl]methyl]pyrazole-4-carboxamide 3-(methoxymethyl)-N-[(6-methylpyridin-3-yl)methyl]-1-({4-[(2-oxopyridin-1-yl)methyl]-1-({4-[(2-oxopyridin-1-yl)methyl]-1-(4-[(2-oxopyridin-1-yl	26	
yl)methyl]phenyl}methyl)-3-(trifluoromethyl)pyrazole-4-carboxamide N-[(3-fluoropyridin-2-yl)methyl]-1-({4-[(4-methylpyrazol-1-yl)methyl]phenyl}methyl 3-(trifluoromethyl)pyrazole-4-carboxamide N-[(4-chloropyridin-2-yl)methyl]-1-({4-[(4-methylpyrazol-1-yl)methyl]phenyl}methyl 3-(trifluoromethyl)pyrazole-4-carboxamide 3-(methoxymethyl)-1-({4-[(2-oxopyridin-1-yl)methyl]phenyl}methyl)-N-[[4-(trifluoromethyl)pyridin-3-yl]methyl]pyrazole-4-carboxamide 3-(methoxymethyl)-N-[(6-methylpyridin-3-yl)methyl]-1-({4-[(2-oxopyridin-1-yl)methyl]phenyl]methyl]phenyl]methyl)pyrazole-4-carboxamide N-[(4-fluoro-5-methoxypyridin-3-yl)methyl]-3-(methoxymethyl)-1-({4-[(2-oxopyridin-3-yl)methyl]-1-({4-[(2-oxopyridin-3-yl)methyl]-3-(methoxymethyl)-1-({4-[(2-oxopyridin-3-yl)methyl]-3-(methoxymethyl)-1-({4-[(2-oxopyridin-3-yl)methyl]-1-({4-[(2-oxopyridin-3-yl)methyl]-1-({4-[(2-oxopyridin-3-yl)methyl]-1-({4-[(2-ox	27	
yl)methyl]phenyl}methyl)-3-(trifluoromethyl)pyrazole-4-carboxamide N-[(3-fluoropyridin-2-yl)methyl]-1-({4-[(4-methylpyrazol-1-yl)methyl]phenyl}methyl 3-(trifluoromethyl)pyrazole-4-carboxamide N-[(4-chloropyridin-2-yl)methyl]-1-({4-[(4-methylpyrazol-1-yl)methyl]phenyl}methyl 3-(trifluoromethyl)pyrazole-4-carboxamide 3-(methoxymethyl)-1-({4-[(2-oxopyridin-1-yl)methyl]phenyl}methyl)-N-[[4-(trifluoromethyl)pyridin-3-yl]methyl]pyrazole-4-carboxamide 3-(methoxymethyl)-N-[(6-methylpyridin-3-yl)methyl]-1-({4-[(2-oxopyridin-1-yl)methyl]phenyl}methyl)pyrazole-4-carboxamide N-[(4-fluoro-5-methoxypyridin-3-yl)methyl]-3-(methoxymethyl)-1-({4-[(2-oxopyridin-1-yl)methyl]-3-(methoxymethyl)-1-({4-[(2-oxopyridin-3-yl)methyl]-3-(methoxymethyl)-3-(methoxymethyl)-3-(methoxymethyl)-3-(methoxymethyl)-3-(methoxymethyl)-3-(methoxymethyl)-3-(methoxymethyl)-3-(methoxymethyl)-3-(methoxymethyl)-3-(methoxymethyl)-	26	N-[(2-fluoro-4-methylphenyl)methyl]-1-({4-[(4-methylpyrazol-1-
3-(trifluoromethyl)pyrazole-4-carboxamide N-[(4-chloropyridin-2-yl)methyl]-1-({4-[(4-methylpyrazol-1-yl)methyl]phenyl}methyl] 3-(trifluoromethyl)pyrazole-4-carboxamide 3-(methoxymethyl)-1-({4-[(2-oxopyridin-1-yl)methyl]phenyl}methyl)-N-[[4-(trifluoromethyl)pyridin-3-yl]methyl]pyrazole-4-carboxamide 3-(methoxymethyl)-N-[(6-methylpyridin-3-yl)methyl]-1-({4-[(2-oxopyridin-1-yl)methyl]phenyl]methyl)pyrazole-4-carboxamide N-[(4-fluoro-5-methoxypyridin-3-yl)methyl]-3-(methoxymethyl)-1-({4-[(2-oxopyridin-3-yl)methyl]-3-(methoxymethyl)-3-(methoxymethyl)-3-(methoxymethyl)-3-(methoxymethyl)-3-(methoxymethyl)-3-(methoxymethyl)-3-(methoxymethyl)-3-(methoxymethyl)-3-(methoxymethyl)-3-(methoxyme	20	yl)methyl]phenyl)methyl)-3-(trifluoromethyl)pyrazole-4-carboxamide
3-(trifluoromethyl)pyrazole-4-carboxamide 3-(methoxymethyl)-1-({4-[(2-oxopyridin-1-yl)methyl]phenyl}methyl)-N-{[4-(trifluoromethyl)pyridin-3-yl]methyl}pyrazole-4-carboxamide 3-(methoxymethyl)-N-[(6-methylpyridin-3-yl)methyl]-1-({4-[(2-oxopyridin-1-yl)methyl]phenyl}methyl)pyrazole-4-carboxamide N-[(4-fluoro-5-methoxypyridin-3-yl)methyl]-3-(methoxymethyl)-1-({4-[(2-oxopyridin-3-yl)methyl]-3-(methoxymethyl)-1-({4-[(2-oxopyridin-3-yl)methyl]-3-(methoxymethyl)-1-({4-[(2-oxopyridin-3-yl)methyl]-3-(methoxymethyl)-1-({4-[(2-oxopyridin-3-yl)methyl]-3-(methoxymethyl)-1-({4-[(2-oxopyridin-3-yl)methyl]-3-(methoxymethyl)-1-({4-[(2-oxopyridin-3-yl)methyl]-3-(methoxymethyl)-1-({4-[(2-oxopyridin-3-yl)methyl]-3-(methoxymethyl)-1-({4-[(2-oxopyridin-3-yl)methyl]-3-(methoxymethyl)-1-({4-[(2-oxopyridin-3-yl)methyl]-3-(methoxymethyl)-1-({4-[(2-oxopyridin-3-yl)methyl]-3-(methoxymethyl)-1-({4-[(2-oxopyridin-3-yl)methyl]-3-(methoxymethyl)-1-({4-[(2-oxopyridin-3-yl)methyl]-3-(methoxymethyl)-1-({4-[(2-oxopyridin-3-yl)methyl]-3-(methoxymethyl)-1-({4-[(2-oxopyridin-3-yl)methyl]-3-(methoxymethyl)-1-({4-[(2-oxopyridin-3-yl)methyl]-3-(methoxymethyl)-1-({4-[(2-oxopyridin-3-yl)methyl]-3-(methoxymethyl)-1-({4-[(2-oxopyridin-3-yl)methyl]-3-(methoxymethyl)-1-({4-[(2-oxopyridin-3-yl)methyl]-1-({4-[(2-oxopyridin-3-yl)methyl]-3-(methoxymethyl)-1-({4-[(2-oxopyridin-3-yl)methyl]-3-(methoxymethyl)-1-({4-[(2-oxopyridin-3-yl)methyl]-3-(methoxymethyl)-1-({4-[(2-oxopyridin-3-yl)methyl]-3-(methoxymethyl)-1-({4-[(2-oxopyridin-3-yl)methyl]-3-(methoxymethyl)-1-({4-[(2-oxopyridin-3-yl)methyl]-3-(methoxymethyl)-1-({4-[(2-oxopyridin-3-yl)methyl]-3-(methoxymethyl)-1-({4-[(2-oxopyridin-3-yl)methyl]-3-(methoxymethyl)-1-({4-[(2-oxopyridin-3-yl)methyl]-3-(methoxymethyl)-3-(methoxymethyl)-3-(methoxymethyl)-3-(methoxymethyl)-3-(methoxymethyl)-3-(methoxymethyl)-3-(methoxymethyl)-3-(methoxymethyl)-3-(methoxymethyl)-3-(methoxymethyl)-3-(methoxymethyl)-3-(methoxymethyl)-3-(methoxymethyl)-3-(methoxymethyl)-3-(methoxymethyl)-3-(methoxymethyl)-3-(methoxymethyl)-3-(methoxymet	29	N-[(3-fluoropyridin-2-yl)methyl]-1-({4-[(4-methylpyrazol-1-yl)methyl]phenyl}methyl)-3-(trifluoromethyl)pyrazole-4-carboxamide
3-(trifluoromethyl)pyrazole-4-carboxamide 3-(methoxymethyl)-1-({4-[(2-oxopyridin-1-yl)methyl]phenyl}methyl)-N-{[4-(trifluoromethyl)pyridin-3-yl]methyl}pyrazole-4-carboxamide 3-(methoxymethyl)-N-[(6-methylpyridin-3-yl)methyl]-1-({4-[(2-oxopyridin-1-yl)methyl]phenyl}methyl)pyrazole-4-carboxamide N-[(4-fluoro-5-methoxypyridin-3-yl)methyl]-3-(methoxymethyl)-1-({4-[(2-oxopyridin-3-yl)methyl]-3-(methoxymethyl)-1-({4-[(2-oxopyridin-3-yl)methyl]-3-(methoxymethyl)-1-({4-[(2-oxopyridin-3-yl)methyl]-3-(methoxymethyl)-1-({4-[(2-oxopyridin-3-yl)methyl]-3-(methoxymethyl)-1-({4-[(2-oxopyridin-3-yl)methyl]-3-(methoxymethyl)-1-({4-[(2-oxopyridin-3-yl)methyl]-3-(methoxymethyl)-1-({4-[(2-oxopyridin-3-yl)methyl]-3-(methoxymethyl)-1-({4-[(2-oxopyridin-3-yl)methyl]-3-(methoxymethyl)-1-({4-[(2-oxopyridin-3-yl)methyl]-3-(methoxymethyl)-1-({4-[(2-oxopyridin-3-yl)methyl]-3-(methoxymethyl)-1-({4-[(2-oxopyridin-3-yl)methyl]-3-(methoxymethyl)-1-({4-[(2-oxopyridin-3-yl)methyl]-3-(methoxymethyl)-1-({4-[(2-oxopyridin-3-yl)methyl]-3-(methoxymethyl)-1-({4-[(2-oxopyridin-3-yl)methyl]-3-(methoxymethyl)-1-({4-[(2-oxopyridin-3-yl)methyl]-3-(methoxymethyl)-1-({4-[(2-oxopyridin-3-yl)methyl]-3-(methoxymethyl)-1-({4-[(2-oxopyridin-3-yl)methyl]-3-(methoxymethyl)-1-({4-[(2-oxopyridin-3-yl)methyl]-1-({4-[(2-oxopyridin-3-yl)methyl]-3-(methoxymethyl)-1-({4-[(2-oxopyridin-3-yl)methyl]-3-(methoxymethyl)-1-({4-[(2-oxopyridin-3-yl)methyl]-3-(methoxymethyl)-1-({4-[(2-oxopyridin-3-yl)methyl]-3-(methoxymethyl)-1-({4-[(2-oxopyridin-3-yl)methyl]-3-(methoxymethyl)-1-({4-[(2-oxopyridin-3-yl)methyl]-3-(methoxymethyl)-1-({4-[(2-oxopyridin-3-yl)methyl]-3-(methoxymethyl)-1-({4-[(2-oxopyridin-3-yl)methyl]-3-(methoxymethyl)-1-({4-[(2-oxopyridin-3-yl)methyl]-3-(methoxymethyl)-3-(methoxymethyl)-3-(methoxymethyl)-3-(methoxymethyl)-3-(methoxymethyl)-3-(methoxymethyl)-3-(methoxymethyl)-3-(methoxymethyl)-3-(methoxymethyl)-3-(methoxymethyl)-3-(methoxymethyl)-3-(methoxymethyl)-3-(methoxymethyl)-3-(methoxymethyl)-3-(methoxymethyl)-3-(methoxymethyl)-3-(methoxymethyl)-3-(methoxymet		N (/4 - 1-1 - 2 - 12 - 2 - 12 - 12 - 12 - 12
(trifluoromethyl)pyridin-3-yl]methyl}pyrazole-4-carboxamide 3-(methoxymethyl)-N-[(6-methylpyridin-3-yl)methyl]-1-({4-[(2-oxopyridin-1-yl)methyl]phenyl}methyl)pyrazole-4-carboxamide N-[(4-fluoro-5-methoxypyridin-3-yl)methyl]-3-(methoxymethyl)-1-({4-[(2-oxopyridin-3-yl)methyl]-3-(methoxymethyl)-1-(4-[(2-oxopyridin-3-yl)methyl]-3-(methoxymethyl)-1-(4-[(2-oxopyridin-3-yl)methyl]-3-(methoxymethyl)-1-(4-[(2-oxopyridin-3-yl)methyl]-3-(methoxymethyl)-1-(4-[(2-oxopyridin-3-yl)methyl]-3-(methoxymethyl)-1-(4-[(2-oxopyridin-3-yl)methyl]-3-(methoxymethyl)-1-(4-[(2-oxopyridin-3-yl)methyl]-3-(methoxymethyl)-1-(4-[(2-oxopyridin-3-yl)methyl]-3-(methoxymethyl)-1-(4-[(2-oxopyridin-3-yl)methyl]-3-(methoxymethyl)-1-(4-[(2-oxopyridin-3-yl)methyl]-3-(methoxymethyl)-1-(4-[(2-oxopyridin-3-yl)methyl]-3-(methoxymethyl)-1-(4-[(2-oxopyridin-3-yl)methyl]-3-(methoxymethyl)-1-(4-[(2-oxopyridin-3-yl)methyl]-3-(methoxymethyl)-1-(4-[(2-oxopyridin-3-yl)methyl]-3-(methoxymethyl)-1-(4-[(2-oxopyridin-3-yl)methyl]-3-(methoxymethyl)-1-(4-[(2-oxopyridin-3-yl)methyl]-3-(methoxymethyl)-1-(4-[(2-oxopyridin-3-yl)methyl]-3-(methoxymethyl)-1-(4-[(2-oxopyridin-3-yl)methyl]-1-(4-[(2-o	30	
32 3-(methoxymethyl)-N-[(6-methylpyridin-3-yl)methyl]-1-({4-[(2-oxopyridin-1-yl)methyl]phenyl}methyl)pyrazole-4-carboxamide N-[(4-fluoro-5-methoxypyridin-3-yl)methyl]-3-(methoxymethyl)-1-({4-[(2-oxopyridin-3-yl)methyl]-3-(methoxymethyl)-1-(4-[(2-oxopyridin-3-yl)methyl]-3-(methoxymethyl)-1-(4-[(2-oxopyridin-3-yl)methyl]-3-(methoxymethyl)-1-(4-[(2-oxopyridin-3-yl)methyl]-3-(methoxymethyl)-1-(4-[(2-oxopyridin-3-yl)methyl]-3-(methoxymethyl)-1-(4-[(2-oxopyridin-3-yl)methyl]-3-(methoxymethyl)-1-(4-[(2-oxopyridin-3-yl)methyl]-3-(methoxymethyl)-1-(4-[(2-oxopyridin-3-yl)methyl]-3-(methoxymethyl)-1-(4-[(2-oxopyridin-3-yl)methyl]-3-(methoxymethyl)-1-(4-[(2-oxopyridin-3-yl)methyl]-3-(methoxymethyl)-1-(4-[(2-oxopyridin-3-yl)methyl]-3-(methoxymethyl)-1-(4-[(2-oxopyridin-3-yl)methyl]-3-(methoxymethyl)-1-(4-[(2-oxopyridin-3-yl)methyl]-3-(methoxymethyl)-1-(4-[(2-oxopyridin-3-yl)methyl]-3-(methoxymethyl)-1-(4-[(2-oxopyridin-3-yl)methyl]-3-(methoxymethyl)-1-(4-[(2-oxopyridin-3-yl)methyl]-3-(methoxymethyl)-1-(4-[(2-oxopyridin-3-yl)methyl]-3-(methoxymethyl)-1-(4-[(2-oxopyridin-3-yl)methyl]-1-(4-[(2-oxopyridin-3-yl]methyl]-1-(4-[(2-oxopyridin-3-yl]methyl]-1-	31	3-(methoxymethyl)-1-({4-[(2-oxopyridin-1-yl)methyl]phenyl}methyl)-N-{[4-
yl)methyl]phenyl}methyl)pyrazole-4-carboxamide N-[(4-fluoro-5-methoxypyridin-3-yl)methyl]-3-(methoxymethyl)-1-({4-[(2-oxopyridin-3-yl)methyl]-3-(methoxymethyl)-1-(4-[(2-oxopyridin-3-yl)methyl]-3-(methoxymethyl)-3-(m	31	(trifluoromethyl)pyridin-3-yl]methyl)pyrazole-4-carboxamide
yl)methyl]phenyl}methyl)pyrazole-4-carboxamide N-[(4-fluoro-5-methoxypyridin-3-yl)methyl]-3-(methoxymethyl)-1-({4-[(2-oxopyridin-3-yl)methyl]-3-(methoxymethyl)-1-(4-[(2-oxopyridin-3-yl)methyl]-3-(methoxymethyl)-1-(4-[(2-oxopyridin-3-yl)methyl]-3-(methoxymethyl)-1-(4-[(2-oxopyridin-3-yl)methyl]-3-(methoxymethyl)-1-(4-[(2-oxopyridin-3-yl)methyl]-3-(methoxymethyl)-1-(4-[(2-oxopyridin-3-yl)methyl]-3-(methoxymethyl)-1-(4-[(2-oxopyridin-3-yl)methyl]-3-(methoxymethyl)-1-(4-[(2-oxopyridin-3-yl)methyl]-1-(4-[(2-oxopyridin-3-yl)met	27	3-(methoxymethyl)-N-[(6-methylpyridin-3-yl)methyl]-1-{{4-[(2-oxopyridin-1-
1 33	32	yl)methyl]phenyl}methyl)pyrazole-4-carboxamide
	33	N-[(4-fluoro-5-methoxypyridin-3-yl)methyl]-3-(methoxymethyl)-1-({4-[(2-oxopyridin-1-yl)methyl]phenyl}methyl)pyrazole-4-carboxamide
N-[(4-acetamidopyridin-3-yl)methyl]-3-(methoxymethyl)-1-({4-[(2-oxopyridin-1-	34	
yl)methyl]phenyl}methyl)pyrazole-4-carboxamide		yl)methyljphenyl}methyl)pyrazole-4-carboxamide
N-{[4-fluoro-2-(trifluoromethyl)pyridin-3-yl]methyl}-3-(methoxymethyl)-1-({4-[(2-oxopyridin-1-yl)methyl]phenyl}methyl)pyrazole-4-carboxamide	35	
3-(methoxymethyl)-1-({4-[(2-oxopyridin-1-yl)methyl]phenyl}methyl)-N-{[2-	36	3-(methoxymethyl)-1-({4-[(2-oxopyridin-1-yl)methyl]phenyl}methyl)-N-{[2-
(trifluoromethyl)pyridin-3-yl]methyl}pyrazole-4-carboxamide	30	(trifluoromethyl)pyridin-3-yl]methyl}pyrazole-4-carboxamide
3-(methoxymethyl)-1-({4-[(2-oxopyridin-1-yl)methyl]phenyl}methyl)-N-{[4-	37	
(trifluoromethyl)pyridin-3-yl]methyl}pyrazole-4-carboxamide		trifluoromethyl)pyridin-3-yl]methyl)pyrazole-4-carboxamide
N-[(4-fluoropyridin-3-yl)methyl]-3-(methoxymethyl)-1-({4-[(2-oxopyridin-1-	38	
yl)methyl]phenyl}methyl)pyrazole-4-carboxamide	<u> </u>	yl)methyl]phenyl}methyl)pyrazole-4-carboxamide

Example	
Number	Name
39	3-(methoxymethyl)-N-[(6-methylpyridin-3-yl)methyl]-1-({4-[(2-oxopyridin-1-yl)methyl]phenyl}methyl)pyrazole-4-carboxamide
40	3-(methoxymethyl)-N-[(6-methoxypyridin-2-yl)methyl]-1-({4-[(2-oxopyridin-1-yl)methyl]phenyl}methyl)pyrazole-4-carboxamide
41	N-[(3-fluoro-4-methoxypyridin-2-yl)methyl]-3-(methoxymethyl)-1-({4-[(2-oxopyridin-1-yl)methyl]phenyl}methyl)pyrazole-4-carboxamide
42	N-[(3-fluoro-6-methoxypyridin-2-yl)methyl]-3-(methoxymethyl)-1-({4-[(2-oxopyridin-1-yl)methyl]phenyl}methyl)pyrazole-4-carboxamide
43	N-[(3-chlorothiophen-2-yl)methyl]-3-(methoxymethyl)-1-({4-[(2-oxopyridin-1-yl)methyl]phenyl}methyl)pyrazole-4-carboxamide
44	N-[(3-chloro-5-methylthiophen-2-yl)methyl]-3-(methoxymethyl)-1-({4-[(2-oxopyridin-1-yl)methyl]phenyl}methyl)pyrazole-4-carboxamide
45	N-[(5-chloro-1-benzothiophen-3-yl)methyl]-3-(methoxymethyl)-1-({4-[(2-oxopyridin-1-yl)methyl]phenyl}methyl)pyrazole-4-carboxamide
46	N-[(5-chloro-1-benzothiophen-3-yl)methyl]-3-(methoxymethyl)-1-{[6-(pyrrolidin-1-yl)pyridin-3-yl]methyl}pyrazole-4-carboxamide
47	N-[(5-chloro-1-benzothiophen-3-yl)methyl]-3-(methoxymethyl)-1-({4-[(4-methylpyrazol-1-yl)methyl]phenyl}methyl)pyrazole-4-carboxamide
48	N-[(2-carbamoylphenyl)methyl]-3-cyclopropyl-1-({4-[(2-oxopyridin-1-yl)methyl]phenyl}methyl)pyrazole-4-carboxamide
49	N-[(3-carbamoylphenyl)methyl]-3-cyclopropyl-1-({4-[(2-oxopyridin-1-yl)methyl]phenyl}methyl)pyrazole-4-carboxamide
50	N-[(4-carbamoylphenyl)methyl]-3-cyclopropyl-1-({4-[(2-oxopyridin-1-yl)methyl]phenyl}methyl)pyrazole-4-carboxamide
51	N-{[2-fluoro-6-(trifluoromethyl)phenyl]methyl}-1-({4-[(2-oxopyridin-1-yl)methyl]phenyl}methyl)-3-(trifluoromethyl)pyrazole-4-carboxamide
52	3-cyclopropyl-N-[(2-fluoro-3-methoxyphenyl)methyl]-1-{(4-[(2-oxopyridin-1-yl)methyl]phenyl}methyl)pyrazole-4-carboxamide
53	N-[(2-fluoro-3-methoxyphenyl)methyl]-3-(methoxymethyl)-1-({4-[(2-oxopyridin-1-yl)methyl]phenyl}methyl)pyrazole-4-carboxamide

Example	.
Number	Name
54	N-[(2-fluoro-3,6-dimethoxyphenyl)methyl]-3-(methoxymethyl)-1-({4-[(2-oxopyridin-1-yl)methyl]phenyl}methyl)pyrazole-4-carboxamide
55	N-[(2-fluoro-3-methoxyphenyl)methyl]-3-(methylamino)-1-({4-[(2-oxopyridin-1-yl)methyl]phenyl}methyl)pyrazole-4-carboxamide
56	3-(ethylamino)-N-[(2-fluoro-3-methoxyphenyl)methyl]-1-({4-[(2-oxopyridin-1-yl)methyl]phenyl}methyl)pyrazole-4-carboxamide
57	N-[(2-fluoro-3-methoxyphenyl)methyl]-3-(isopropylamino)-1-({4-[(2-oxopyridin-1-yl)methyl]phenyl}methyl)pyrazole-4-carboxamide
58	3-amino-1-({4-[(2-oxopyridin-1-yl)methyl]phenyl}methyl)-N-{[4- (trifluoromethoxy)phenyl]methyl}pyrazole-4-carboxamide
59	3-(dimethylamino)-N-[(2-fluoro-3-methoxyphenyl)methyl]-1-({4-[(2-oxopyridin-1-yl)methyl]phenyl}methyl)pyrazole-4-carboxamide
60	3-amino-N-[(2,6-difluoro-3-methoxyphenyl)methyl]-1-({4-[(2-oxopyridin-1-yl)methyl]phenyl}methyl)pyrazole-4-carboxamide
61	N-{(2,6-difluoro-3-methoxyphenyl)methyl]-3-(methylamino)-1-({4-[(2-oxopyridin-1-yl)methyl]phenyl}methyl)pyrazole-4-carboxamide
62	N-[(2-fluorophenyl)methyl]-3-(methoxymethyl)-1-({4-[(2-oxopyridin-1-yl)methyl]phenyl}methyl)pyrazole-4-carboxamide
63	3-(methoxymethyl)-1-({4-[(2-oxopyridin-1-yl)methyl]phenyl}methyl)-N-{[2- (trifluoromethyl)phenyl]methyl}pyrazole-4-carboxamide
64	N-[(2-fluoro-5-methoxyphenyl)methyl]-3-(methoxymethyl)-1-({4-[(2-oxopyridin-1-yl)methyl]phenyl}methyl)pyrazole-4-carboxamide
65	N-[(2-fluoro-4-methylphenyl)methyl]-3-(methoxymethyl)-1-({4-[(2-oxopyridin-1-yl)methyl]phenyl}methyl)pyrazole-4-carboxamide
66	N-[(2,6-difluoro-3-methoxyphenyl)methyl]-3-(methoxymethyl)-1-({4-[(2-oxopyridin-1-yl)methyl]phenyl}methyl)pyrazole-4-carboxamide
67	N-[(3-chloro-5-methoxyphenyl)methyl]-3-(methoxymethyl)-1-({4-[(2-oxopyridin-1-yl)methyl]phenyl}methyl)pyrazole-4-carboxamide
68	N-{[2-(difluoromethyl)phenyl]methyl}-3-(methoxymethyl)-1-({4-[(2-oxopyridin-1-yl)methyl]phenyl}methyl)pyrazole-4-carboxamide

Example Name Number N-{[2-(difluoromethyl)-3-methoxyphenyl]methyl}-3-(methoxymethyl)-1-({4-[(2-69 oxopyridin-1-yl)methyl]phenyl}methyl)pyrazole-4-carboxamide 3-amino-N-{[2-fluoro-6-(trifluoromethyl)phenyl]methyl}-1-({4-[(2-oxopyridin-1-70 yl)methyl]phenyl}methyl)pyrazole-4-carboxamide 3-acetamido-N-[(2-fluoro-3-methoxyphenyl)methyl]-1-((4-[(2-oxopyridin-1-71 yl)methyl]phenyl}methyl)pyrazole-4-carboxamide N-[(2-fluoro-3-methoxyphenyl)methyl]-3-(N-methylacetamido)-1-({4-[(2-oxopyridin-72 1-yl)methyl]phenyl}methyl)pyrazole-4-carboxamide N-[(3-chloro-2,6-difluorophenyl)methyl]-3-(methoxymethyl)-1-([4-[(2-oxopyridin-1-73 yl)methyl]phenyl}methyl)pyrazole-4-carboxamide N-[(2-fluoro-3-methoxy-4-methylphenyl)methyl]-3-(methoxymethyl)-1-({4-{(2-74 oxopyridin-1-yl)methyl]phenyl}methyl)pyrazole-4-carboxamide N-[(2-cyano-5-methoxyphenyl)methyl]-3-(methoxymethyl)-1-({4-[(2-oxopyridin-1-75 yl)methyl]phenyl}methyl)pyrazole-4-carboxamide N-[(5-chloro-2-cyanophenyl)methyl]-3-(methoxymethyl)-1-({4-[(2-oxopyridin-1-76 yl)methyl]phenyl}methyl)pyrazole-4-carboxamide N-[(6-cyano-2-fluoro-3-methoxyphenyl)methyl]-3-(methoxymethyl)-1-({4-[(2-77 oxopyridin-1-yl)methyl]phenyl}methyl)pyrazole-4-carboxamide N-{[3-methoxy-2-(trifluoromethyl)phenyl]methyl}-3-(methoxymethyl)-1-({4-[(2-78 oxopyridin-1-yl)methyl]phenyl}methyl)pyrazole-4-carboxamide N-{[5-methoxy-2-(trifluoromethyl)phenyl]methyl}-3-(methoxymethyl)-1-({4-[(2-79 oxopyridin-1-yl)methyl]phenyl}methyl)pyrazole-4-carboxamide N-{[2-(difluoromethyl)-6-fluorophenyl]methyl}-3-(methoxymethyl)-1-{{4-[(2-80 oxopyridin-1-yl)methyl]phenyl}methyl)pyrazole-4-carboxamide N-{[2-(difluoromethyl)-5-methoxyphenyl]methyl}-3-(methoxymethyl)-1-({4-[(2-81 oxopyridin-1-yl)methyl]phenyl}methyl)pyrazole-4-carboxamide N-{[6-(difluoromethyl)-2-fluoro-3-methoxyphenyl]methyl}-3-(methoxymethyl)-1-({4-82 [(2-oxopyridin-1-yl)methyl]phenyl}methyl)pyrazole-4-carboxamide N-{[2-(difluoromethyl)-6-fluoro-3-methoxyphenyl]methyl}-3-(methoxymethyl)-1-({4-83 [(2-oxopyridin-1-yl)methyl]phenyl}methyl)pyrazole-4-carboxamide

Example	Name
Number	Name Name
84	N-{(2-chloro-5-methoxyphenyl)methyl]-3-(methoxymethyl)-1-({4-[(2-oxopyridin-1-yl)methyl]phenyl}methyl)pyrazole-4-carboxamide
85	N-[(2-carbamoyl-6-fluorophenyl)methyl]-3-(methoxymethyl)-1-({4-[(2-oxopyridin-1-yl)methyl]phenyl}methyl)pyrazole-4-carboxamide
86	N-[(2-carbamoyl-5-methoxyphenyl)methyl]-3-(methoxymethyl)-1-({4-[(2-oxopyridin-1-yl)methyl]phenyl}methyl)pyrazole-4-carboxamide
87	2-({[3-(methoxymethyl)-1-({4-[(2-oxopyridin-1-yl)methyl]phenyl}methyl)pyrazol-4-yl]formamido}methyl)benzoic acid
88	N-{[2-fluoro-6-(1,2,3,4-tetrazol-1-yl)phenyl]methyl}-3-(methoxymethyl)-1-({4-[(2-oxopyridin-1-yl)methyl]phenyl}methyl)pyrazole-4-carboxamide
89	N-{[2-fluoro-5-(1,2,3,4-tetrazol-1-yl)phenyl]methyl}-3-(methoxymethyl)-1-({4-[(2-oxopyridin-1-yl)methyl]phenyl}methyl)pyrazole-4-carboxamide
90	N-{[3-(difluoromethoxy)-2-fluorophenyl]methyl}-3-(methoxymethyl)-1-({4-[(2-oxopyridin-1-yl)methyl]phenyl}methyl)pyrazole-4-carboxamide
91	N-{[3-(difluoromethoxy)phenyl]methyl}-3-(methoxymethyl)-1-({4-[(2-oxopyridin-1-yl)methyl]phenyl}methyl)pyrazole-4-carboxamide
92	N-{[2-(difluoromethoxy)-6-fluorophenyl]methyl}-3-(methoxymethyl)-1-({4-[(2-oxopyridin-1-yl)methyl]phenyl}methyl)pyrazole-4-carboxamide
93	N-{[2-(difluoromethyl)-6-fluoro-4-methylphenyl]methyl}-3-(methoxymethyl)-1-({4-[(2-oxopyridin-1-yl)methyl]phenyl}methyl)pyrazole-4-carboxamide
94	N-[(2,5-difluorophenyl)methyl]-3-(methoxymethyl)-1-({4-[(2-oxopyridin-1-yl)methyl]phenyl}methyl)pyrazole-4-carboxamide
95	N-[(3-fluoro-5-methoxyphenyl)methyl]-3-(methoxymethyl)-1-({4-[(2-oxopyridin-1-yl)methyl]phenyl}methyl)pyrazole-4-carboxamide
96	N-[(2,5-difluoro-3-methoxyphenyl)methyl]-3-(methoxymethyl)-1-({4-[(2-oxopyridin-1-yl)methyl]phenyl}methyl)pyrazole-4-carboxamide
97	N-[(2-fluoro-6-methylphenyl)methyl]-3-(methoxymethyl)-1-({4-[(2-oxopyridin-1-yl)methyl]phenyl}methyl)pyrazole-4-carboxamide
98	N-[(5-chloro-2-fluoro-3-methoxyphenyl)methyl]-3-(methoxymethyl)-1-({4-[(2-oxopyridin-1-yl)methyl]phenyl}methyl)pyrazole-4-carboxamide

Example	
Number	Name
99	N-[(6-chloro-2-fluoro-3-methoxyphenyl)methyl]-3-(methoxymethyl)-1-({4-[(2-oxopyridin-1-yl)methyl]phenyl}methyl)pyrazole-4-carboxamide
100	N-{[2-fluoro-3-methoxy-6-(trifluoromethyl)phenyl]methyl}-3-(methoxymethyl)-1-({4- [(2-oxopyridin-1-yl)methyl]phenyl}methyl)pyrazole-4-carboxamide
101	N-{[2-fluoro-4-methyl-6-(trifluoromethyl)phenyl]methyl}-3-(methoxymethyl)-1-({4- [(2-oxopyridin-1-yl)methyl]phenyl}methyl)pyrazole-4-carboxamide
102	N-{[4-chloro-2-fluoro-6-(trifluoromethyl)phenyl]methyl}-3-(methoxymethyl)-1-{{4- [(2-oxopyridin-1-yl)methyl]phenyl}methyl)pyrazole-4-carboxamide
103	3-cyano-N-[(2-fluoro-3-methoxyphenyl)methyl]-1-({4-[(2-oxopyridin-1-yl)methyl]phenyl}methyl)pyrazole-4-carboxamide
129	N-[(2-fluoro-3-hydroxyphenyl)methyl]-3-(methoxymethyl)-1-({4-[(2-oxopyridin-1-yl)methyl]phenyl}methyl)pyrazole-4-carboxamide
130	3-amino-N-[(2-fluoro-3-hydroxyphenyl)methyl]-1-({4-[(2-oxopyridin-1-yl)methyl]phenyl}methyl)pyrazole-4-carboxamide
131	methyl 2-({[3-(methoxymethyl)-1-({4-[(2-oxopyridin-1-yl)methyl]phenyl}methyl)pyrazol-4-yl]formamido}methyl)benzoate
132	N-[(3-ethyl-2-fluorophenyl)methyl]-3-(methoxymethyl)-1-({4-[(2-oxopyridin-1-yl)methyl]phenyl}methyl)pyrazole-4-carboxamide
133	3-(methoxymethyl)-N-[(3-methoxyphenyl)methyl]-1-({4-[(2-oxopyridin-1-yl)methyl]phenyl}methyl)pyrazole-4-carboxamide
104	N-[(2-fluoro-3-methoxyphenyl)methyl]-3-(methoxymethyl)-1-({4-[(2-oxopyrazin-1-yl)methyl]phenyl}methyl)pyrazole-4-carboxamide
105	N-[(2,6-difluoro-3-methoxyphenyl)methyl]-1-({4-[(4-fluoro-2-oxopyridin-1-yl)methyl]phenyl}methyl)-3-(methoxymethyl)pyrazole-4-carboxamide
106	N-[(2,6-difluoro-3-methoxyphenyl)methyl]-3-(methoxymethyl)-1-({4-[(4-methyl-2-oxopyridin-1-yl)methyl]phenyl}methyl)pyrazole-4-carboxamide
107	1-({4-[(5-fluoro-2-oxopyridin-1-yl)methyl]phenyl}methyl)-N-[(2-fluoro-3-methoxyphenyl)methyl]-3-(methoxymethyl)pyrazole-4-carboxamide
108	N-[(2,6-difluoro-3-methoxyphenyl)methyl]-1-({4-[(5-fluoro-2-oxopyridin-1-yl)methyl]phenyl}methyl)-3-(methoxymethyl)pyrazole-4-carboxamide

Example	
Number	Name
109	N-[(2,6-difluoro-3-methoxyphenyl)methyl]-1-((4-[(4-ethoxy-2-oxopyridin-1-
	yl)methyl]phenyl}methyl)-3-(methoxymethyl)pyrazole-4-carboxamide
*******************************	N-[(2-fluoro-3-methoxyphenyl)methyl]-1-({4-[(5-methoxy-4-methylpyrazol-1-
110	yl)methyl]phenyl}methyl)-3-(methoxymethyl)pyrazole-4-carboxamide
***************************************	N (/2 fluore 2 months at least the did 2 (months at least the did 1 fle /2 months did 1
111	N-[(2-fluoro-3-methoxyphenyl)methyl]-3-(methoxymethyl)-1-{[5-(2-oxopyridin-1-yl)thiophen-3-yl]methyl}pyrazole-4-carboxamide
	yiydilopheli-5-yijinediyijpyi'azole-4-carboxamide
112	N-[(2-fluoro-3-methoxyphenyl)methyl]-3-(methoxymethyl)-1-({5-[(2-oxopyridin-1-
	yl)methyl]thiophen-3-yl}methyl)pyrazole-4-carboxamide
	3-amino-N-[(2-fluoro-3-methoxyphenyl)methyl]-1-({4-[(4-methylpyrazol-1-
113	yl)methyl]phenyl}methyl)pyrazole-4-carboxamide
	2
134	3-methoxymethyl-1-[4-(4-methyl-pyrazol-1-ylmethyl)-benzyl]-1H-pyrazole-4-carboxylic acid 6-cyano-2-fluoro-3-methoxy-benzylamide
	carboxyne acid o cydno 2 ndoro 3 methoxy benzylannae
135	3-methoxymethyl-1-(2-pyrrolidin-1-yl-pyrimidin-5-ylmethyl)-1H-pyrazole-4-
	carboxylic acid 6-cyano-2-fluoro-3-methoxy-benzylamide
425	1-(2-pyrrolidin-1-yl-pyrimidin-5-ylmethyl)-3-trifluoromethyl-1H-pyrazole-4-carboxylic
136	acid 6-cyano-2-fluoro-3-methoxy-benzylamide
	N-[(2-fluoro-3-methoxyphenyl)methyl]-1-({4-[(2-fluoro-6-oxopyridin-1-
114	yl)methyl]phenyl}methyl)-3-(methoxymethyl)pyrazole-4-carboxamide
115	1-({4-[(2-chloro-6-oxopyridin-1-yl)methyl]phenyl}methyl)-N-[(2-fluoro-3-
	methoxyphenyl)methyl]-3-(methoxymethyl)pyrazole-4-carboxamide
116	N-[(2,6-difluoro-3-methoxyphenyl)methyl]-3-(methoxymethyl)-1-({2-
110	[(methylamino)methyl]phenyl}methyl)pyrazole-4-carboxamide
***************************************	N-[(2,6-difluoro-3-methoxyphenyl)methyl]-3-(methoxymethyl)-1-{[2-
117	(methylamino)pyridin-4-yl]methyl}pyrazole-4-carboxamide
118	N-[(2-fluoro-3-methoxyphenyl)methyl]-3-(methoxymethyl)-1-{[2-(2,2,2-
	trifluoroethyl)phenyl]methyl}pyrazole-4-carboxamide
119	N-[(2-fluoro-3-methoxyphenyl)methyl]-3-(methoxymethyl)-1-{[2-
	(trifluoromethoxy)phenyl]methyl}pyrazole-4-carboxamide
	N-[(2-fluoro-3-methoxyphenyl)methyl]-2-methyl-1-({4-[(2-oxopyridin-1-
121	yl)methyl]phenyl}methyl)imidazole-4-carboxamide

Example	
Number	Name
122	2-amino-N-[(2-fluoro-3-methoxyphenyl)methyl]-1-({4-[(2-oxopyridin-1-yl)methyl]phenyl}methyl)imidazole-4-carboxamide
123	2-cyclopropyl-N-[(2-fluoro-3-methoxyphenyl)methyl]-1-({4-[(2-oxopyridin-1-yl)methyl]phenyl}methyl)imidazole-4-carboxamide
124	N-[(2-fluoro-3-methoxyphenyl)methyl]-1-({4-[(2-oxopyridin-1-yl)methyl]phenyl}methyl)-2-(trifluoromethyl)imidazole-4-carboxamide
125	N-[(2-fluoro-3-methoxyphenyl)methyl]-2-(methoxymethyl)-1-({4-[(2-oxopyridin-1-yl)methyl]phenyl}methyl)imidazole-4-carboxamide
126	N-[(2-fluoro-3-methoxyphenyl)methyl]-1-{[6-(pyrrolidin-1-yl)pyridin-3-yl]methyl}-3- (trifluoromethyl)pyrazole-4-carboxamide
127	3-amino-N-[(2-fluoro-3-methoxyphenyl)methyl]-1-{[6-(pyrrolidin-1-yl)pyridin-3-yl]methyl}pyrazole-4-carboxamide
128	N-[(2-fluoro-3-methoxyphenyl)methyl]-3-(methoxymethyl)-1-{[6-(pyrrolidin-1-yl)pyridin-3-yl]methyl}pyrazole-4-carboxamide
137	3-methoxymethyl-1-(6-pyrrolidin-1-yl-pyridin-3-ylmethyl)-1H-pyrazole-4-carboxylic acid 6-cyano-2-fluoro-3-methoxy-benzylamide
138	1-(6-pyrrolidin-1-yl-pyridin-3-ylmethyl)-3-trifluoromethyl-1H-pyrazole-4-carboxylic acid 6-cyano-2-fluoro-3-methoxy-benzylamide
139	3-amino-N-[(7-chloro-4-methyl-2,3-dihydro-1,4-benzoxazin-2-yl)methyl]-1-({4-[(2-oxopyridin-1-yl)methyl]phenyl}methyl)pyrazole-4-carboxamide
140	3-amino-N-[(7-chloro-3,4-dihydro-2H-1,4-benzoxazin-2-yl)methyl]-1-({4-[(2-oxopyridin-1-yl)methyl]phenyl}methyl)pyrazole-4-carboxamide

Table 13: NMR data of examples (solvent d6 DMSO)

Example	T T
Number	Chemical shift
4	1.98 (3H, s), 3.82 (3H, s), 4.39 (2H, d, J = 5.7Hz), 5.22 (2H, s), 5.40 (2H, s), 6.86-6.90 (1H, m), 7.04-7.10 (2H, m), 7.19-7.29 (5H, m), 7.53 (1H, s), 8.43 (1H, s), 8.74 (1H, t, J = 5.7Hz)
5	1.87 (3H, s), 3.72 (3H, s), 4.35 (2H, d, J =5.9Hz), 5.22 (2H, s), 5.41 (2H, s), 6.80-6.86 (3H, m), 7.20 (2H, d, J =8.2Hz), 7.23-7.29 (4H, m), 7.53 (1H, s), 8.42 (1H, s), 8.75 (1H, br. s)
6	1.30 (3H, t, J = 6.9Hz), 1.98 (3H, s), 3.99 (2H, q, J = 7.0Hz), 4.34 (2H, d, J = 5.9Hz), 5.22 (2H, s), 5.41 (2H, s), 6.78-6.84 (3H, m), 7.19-7.27 (6H, m), 7.53 (1H, s), 8.43 (1H, s), 8.75 (1H, t, J = 5.8Hz)
7	1.98 (3H, s), 4.42 (2H, d, J = 6.0Hz), 5.22 (2H, s), 5.41(2H, s), 7.19-7.33 (8H,m), 7.46 (1H, t, J = 7.7Hz), 7.53 (1H, s), 8.43 (1H, s), 8.86 (1H, t, J = 5.9Hz)
8	1.98 (3H, s), 2.27 (3H, s), 4.32 (2H, d, J = 5.8 Hz), 5.22 (2H, s), 5.40 (2H, s), 7.11-7.23 (9H, m), 7.54 (1H, s), 8.42 (1H, s), 8.75 (1H, t, J = 5.9 Hz)
9	1.98 (3H, s), 3.70 (3H, s), 4.37 (2H, d , J = 5.7Hz), 5.23 (2H, s), 5.41 (2H, s), 6.84-6.87 (2H, m), 7.09-7.13 (1H, m), 7.21-7.29 (5H, m), 7.54 (1H, s), 8.44 (1H, s), 8.77 (1H, t, J = 5.7Hz)
10	1.98 (3H, s), 3.74 (3H, s), 3.78 (3H, s), 4.25 (2H, d, J = 5.6Hz), 5.23 (2H, s), 5.40 (2H, s), 6.47 (1H, dd, J = 8.4, 2.4Hz), 6.54 (1H, d, J = 2.3Hz), 7.09 (1H, d, J = 8.3Hz), 7.20 (2H, d, J = 8.2Hz), 7.24 (1H, s), 7.28 (2H, d, J = 8.1Hz), 7.54 (1H, s), 8.44 (1H, d, J = 0.6), 8.51 (1H, t, J = 5.6Hz)
11	1.98 (3H, s), 3.77 (3H, s), 4.33 (2H, d, J= 5.0Hz), 5.22 (2H, s), 5.38 (2H, s), 6.74 (2H, d, J= 9.7Hz), 7.19 (2H, d, J = 8.1Hz), 7.24 (2H, d, J = 3.7Hz), 7.26 (1H, s), 7.54 (1H, s), 8.37 (1H, s), 8.55 (1H, t, J = 5.0Hz)
12	1.98 (3H, s), 3.81 (3H, s), 4.47 (2H, d, J = 5.2Hz), 5.23 (2H, s), 5.42 (2H, s), 7.20-7.24 (5H, m), 7.29 (2H, d, J = 8.0Hz), 7.44 (1H, d, J = 8.2Hz), 7.54 (1H, s), 8.46 (1H, s), 8.78 (1H, t, J = 4.8Hz)
13	1.98 (3H, s), 4.42 (2H, d, J = 5.1Hz), 5.22 (2H, s), 5.38 (2H, s), 7.06-7.09 (2H, m), 7.10-7.13 (2H, m), 7.18-7.26 (3H, m), 7.37-7.44 (1H, m), 7.54 (1H, s), 8.38 (1H, s), 8.65 (1H, t, J = 5.1Hz)
14	1.98 (3H, s), 4.49-4.50 (2H, m), 5.21 (2H, s), 5.38 (2H, s), 7.18 (2H, d, J = 8.2Hz), 7.23-7.27 (4H, m), 7.34-7.43 (2H, m), 7.54 (1H, s), 8.38 (1H, s), 8.55 (1H, t, J = 4.8Hz)
15	1.98 (3H, s), 4.52 (2H, d, J = 3.9Hz), 5.21 (2H,s), 5.38 (2H, s), 7.18 (2H, d, J = 8.1Hz), 7.23-7.25 (3H, m), 7.53 (1H, s), 7.58-7.63 (3H, m), 8.35 (1H, s), 8.51 (1H, t, J= 4.3Hz)

Example	
Number	Chemical shift
16	1.98 (3H, s), 4.38 (2H, d, J = 5.1Hz), 5.22 (2H, s), 5.39 (2H, s), 7.18 (1H, s), 7.20 (1H, s), 7.24 (2H, d, J = 4.5Hz), 7.27 (1H, s), 7.38 (2H, d, J = 7.4Hz), 7.54 (1H, s), 8.36 (1H, s), 8.67 (1H, t, J = 5.1Hz)
17	1.98 (3H, s), 4.38 (2H, d, J = 5.6Hz), 5.23 (2H, s), 5.41 (2H, s), 7.19 (1H, s), 7.21 (1H, s), 7.24 (1H, s), 7.26-7.29 (3H, m), 7.37 (1H, t, J = 8.2Hz), 7.43 (1H, dd, J = 10.0, 2.0Hz), 7.55 (1H, s), 8.44 (1H, s), 8.82 (1H, t, J = 5.8Hz)
18	1.98 (3H, s), 4.44 (2H, d, J = 5.2 Hz), 5.22 (2H, s), 5.39 (2H, s), 7.18-7.27 (6H, m), 7.53 (1H, s), 7.58-7.62 (1H, m), 8.46 (1H, s), 8.71 (1H, t, J = 5.2Hz)
19	1.98 (3H, s), 4.44 (2H, d, J = 5.6Hz), 5.23 (2H, s), 5.41 (2H, s), 7.19-7.23 (4H, m), 7.27-7.32 (3H, m), 7.47-7.51 (1H, m), 7.53 (1H, s), 8.44 (1H,s), 8.82 (1H, t, J= 5.6Hz)
20	1.98 (3H, s), 4.39 (2H, d, J = 5.7Hz), 5.23 (2H, s), 5.41 (2H, s), 7.19-7.30 (6H, m), 7.36-7.40 (2H, m), 7.54 (1H, s), 8.45 (1H, s), 8.80 (1H, t, J = 5.7Hz)
21	1.98 (3H, s), 4.56 (2H, d, J = 3.7 Hz), 5.21 (2H, s), 5.39 (2H, s), 7.19 (2H, d, J = 8.1Hz), 7.24 (2H, d, J = 2.8Hz), 7.26 (1H, s), 7.53 (1H, s), 7.65 (1H, d, J = 8.6Hz), 7.82 (1H, t, J = 7.8Hz), 8.35 (1H, s), 8.54 (1H, t, J = 4.2Hz)
22	1.98 (3H, s), 4.61 (2H, d, J = 4.4Hz), 5.21 (2H, s), 5.38 (2H, s), 7.18 (2H, d, J = 8.2Hz), 7.22-7.26 (3H, m), 7.38-7.40 (1H, m), 7.49-7.53 (3H, m), 8.38 (1H, s), 8.45 (1H, t, J= 4.3Hz)
23	1.98 (3H, s), 4.54 (2H, d, J = 5.6Hz), 5.23 (2H, s), 5.44 (2H, s), 7.20-7.24 (3H, m), 7.30 (2H, d, J = 8.1Hz), 7.53 (2H, d, J = 5.5Hz), 7.57 (1H, d, J = 8.5Hz), 7.77 (1H, d, J = 8.4Hz), 8.49 (1H, s), 8.90 (1H, t, J = 5.8Hz)
24	1.98 (3H, s), 2.24 (6H, s), 4.31 (2H, d, J = 5.6 Hz), 5.22 (2H, s), 5.40 (2H, s), 6.95 (1H, d, J = 7.7 Hz), 6.98 (1H, s), 7.10 (1H, d, J = 7.6 Hz), 7.18-7.29 (5H, m), 7.54 (1H, s), 8.44 (1H, s), 8.60 (1H, t, J = 5.6 Hz)
25	1.97 (3H, s), 2.31 (6H, s), 4.38 (2H, d, J = 4.7 Hz), 5.21 (2H, s), 5.36 (2H, s), 7.01 (1H, s), 7.03 (1H, s), 7.07-7.11 (1H, m), 7.16 (1H, s), 7.18 (1H, s), 7.23 (2H, d, J = 3.5 Hz), 7.25 (1H, s), 7.53 (1H, s), 8.26 (1H, t, J = 5.0 Hz), 8.38 (1H, s)
26	1.97 (3H, s), 2.20 (3H, s), 2.26 (6H, s), 4.34 (2H, d, J = 4.8Hz), 5.21 (2H, s), 5.36 (2H, s), 6.84 (2H, s), 7.17 (2H, d, J = 8.1Hz), 7.23-7.25 (3H, m), 7.53 (1H, s), 8.20 (1H, t, J = 4.7Hz), 8.38 (1H, s)
27	1.98 (3H, s), 2.19 (3H, d, J = 1.7Hz), 4.38 (2H, d, J = 5.6Hz), 5.22 (2H, s), 5.40 (2H, s), 7.04-7.09 (2H, m), 7.16-7.29 (6H, m), 7.53 (1H, s), 8.44 (1H, s), 8.68 (1H, t, J = 5.2Hz)

Example	
Number	Chemical shift
28	1.98 (3H, s), 2.29 (3H, s), 4.35 (2H, d, J = 5.7 Hz), 5.23 (2H, s), 5.40 (2H, s), 6.98 (1H, d, J = 8.1 Hz), 7.01 (1H, d, J = 11.6 Hz), 7.19-7.22 (3H, m), 7.24 (1H, s), 7.27 (1H s), 7.29 (1H, s), 7.55 (1H, s), 8.44 (1H, s), 8.75 (1H, t, J = 5.7 Hz)
29	1.99 (3H, s), 4.55 (2H, dd, J = 5.5, 1.4Hz), 5.23 (2H, s), 5.41 (2H, s), 7.19-7.24 (3H, m), 7.28 (2H, d, J= 8.2Hz), 7.38-7.43 (1H, m), 7.54 (1H, s), 7.67-7.72 (1H, m), 8.36-8.38 (1H, m), 8.44 (1H, s), 8.76 (1H, t, J = 4.2Hz)
30	1.99 (3H, s), 4.49 (2H, d, J = 5.9Hz), 5.24 (2H, s), 5.43 (2H, s), 7.20-7.25 (3H, m), 7.30-7.31 (2H, m), 7.49-7.50 (2H, m), 7.55 (1H, s), 8.52 (2H, d, J = 5.8Hz), 8.97 (1H, d, J = 5.9Hz)
31	3.20 (3H, m), 4.53 (2H, d, J = 2.9Hz), 4.59 (2H, d, J = 5.2Hz), 5.06 (2H, s), 5.30 (2H, s), 6.19-6.27 (1H, m), 6.40 (1H, d, J = 9.2Hz), 7.18-7.34 (4H, m), 7.36-7.47 (1H, m), 7.76 (2H, t, J = 6.4Hz), 8.24-8.37 (1H, s), 8.54 (1H, s), 8.74-8.86 (2H, m)
32	2.73 (3H, s), 3.22 (3H, s), 4.46 - 4.58 (4H, m), 5.08 (2H, s), 5.30 (2H, s), 6.20 - 6.27 (1H, m), 6.40 (1H, d, J = 9.1Hz), 7.20 - 7.32 (4H, m), 7.42 (1H, ddd, J = 2.1, 6.6, 8.8Hz), 7.78 (1H, dd, J = 1.5, 6.8Hz), 7.88 (1H, d, J = 8.3Hz), 8.30 (1H, s), 8.39 (1H, dd, J = 2.0, 8.3Hz), 8.64 - 8.76 (2H, m)
36	3.21 (3H, s), 4.54 (2H, s), 4.58 (2H, d, J = 5.7Hz), 5.07 (2H, s), 5.30 (2H, s), 6.22 (1H, td, J = 6.7, 1.4Hz), 6.39 (1H, d, J = 9.2Hz), 7.20-7.31 (4H, m), 7.41 (1H, ddd, J = 8.9, 6.6, 2.1Hz), 7.70 (1H, dd, J = 7.9, 4.7Hz), 7.76 (1H, dd, J = 6.8, 2.1Hz), 7.97 (1H, d, J = 7.8Hz), 8.28 (1H, s), 8.50 (1H, t, J = 5.8Hz), 8.62 (1H, d, J = 4.9Hz)
37	3.20 (3H, m), 4.53 (2H, d, J = 2.9Hz), 4.59 (2H, d, J = 5.2Hz), 5.06 (2H, s), 5.30 (2H, s), 6.19-6.27 (1H, m), 6.40 (1H, d, J = 9.2Hz), 7.18-7.34 (4H, m), 7.36-7.47 (1H, m), 7.76 (2H, t, J = 6.4Hz), 8.24-8.37 (1H, s), 8.54 (1H, s), 8.74-8.86 (2H, m)
39	2.73 (3H, s), 3.22 (3H, s), 4.46 - 4.58 (4H, m), 5.08 (2H, s), 5.30 (2H, s), 6.20 - 6.27 (1H, m), 6.40 (1H, d, J = 9.1Hz), 7.20 - 7.32 (4H, m), 7.42 (1H, ddd, J = 2.1, 6.6, 8.8Hz), 7.78 (1H, dd, J = 1.5, 6.8Hz), 7.88 (1H, d, J = 8.3Hz), 8.30 (1H, s), 8.39 (1H, dd, J = 2.0, 8.3Hz), 8.64 - 8.76 (2H, m)
40	3.21 (3H, s), 3.83 (3H, s), 4.40 (2H, d, J = 5.8Hz), 4.55 (2H, s), 5.07 (2H, s), 5.30 (2H, s), 6.22 (1H, dt, J = 1.4, 6.6Hz), 6.40 (1H, ddd, J = 0.7, 1.4, 9.1Hz), 6.67 (1H, dd, J = 0.8, 8.2Hz), 6.88 (1H, dd, J = 0.8, 7.3Hz), 7.22-7.29 (4H, m), 7.41 (1H, ddd, J = 2.1, 6.6, 9.2Hz), 7.65 (1H, dd, J = 7.3, 8.2Hz), 7.76 (1H, ddd, J = 0.8, 2.1, 6.8Hz), 8.28 (1H, s), 8.42 (1H, t, J = 5.8Hz)

Example	
Number	Chemical shift
41	3.25 (3H, s), 3.92 (3H, s), 4.46-4.57 (4H, m), 5.07 (2H, s), 5.28 (2H, s), 6.22 (1H, td, J = 1.4, 6.7 Hz), 6.39 (1H, ddd, J = 0.7, 1.4, 9.2 Hz), 7.17-7.28 (5H, m), 7.41 (1H, ddd, J = 2.1, 6.6, 8.9 Hz), 7.75 (1H, ddd, J = 0.7, 2.1, 6.8 Hz), 8.21-8.29 (2H, m), 8.42 (1H, t, J = 5.4 Hz)
42	3.21 (3H, s), 3.79 (3H, s), 4.49 (2H, dd, J = 2.0, 5.5Hz), 4.54 (2H, s), 5.07 (2H, s), 5.29 (2H, s), 6.23 (1H, td, J = 1.4, 6.7Hz), 6.38 - 6.43 (1H, m), 6.77 (1H, dd, J = 3.0, 8.9Hz), 7.20 - 7.25 (2H, m), 7.25 - 7.30 (2H, m), 7.41 (1H, ddd, J = 2.1, 6.6, 8.9Hz), 7.65 (1H, t, J = 8.9Hz), 7.76 (1H, dd, J = 1.5, 6.8Hz), 8.26 (1H, s), 8.31 (1H, t, J = 5.5Hz)
45	3.17 (3H, s), 4.53 (2H, s), 4.61 (2H, d, J = 5.7Hz), 5.06 (2H, s), 5.27 (2H, s), 6.21 (1H, dt, J = 6.8, 1.3Hz), 6.39 (1H, d, J = 9.3Hz), 7.22 (2H, d, J = 8.2Hz), 7.26 (2H, d, J = 8.3Hz), 7.38-7.42 (2H, m), 7.69 (1H, s), 7.75 (1H, dd, J = 6.8, 1.8Hz), 7.99 (1H, d, J = 2.0Hz), 8.02 (1H, d, J = 8.6Hz), 8.22 (1H, s), 8.36-8.43 (1H, m)
46	1.91-1.93 (4H, m), 3.19 (3H, s), 3.31-3.36 (4H, m), 4.54 (2H, s), 4.61 (2H, d, J = 5.7Hz), 5.12 (2H, s), 6.40 (1H, d, J = 8.7Hz), 7.40 (1H, dd, J = 8.6, 2.0Hz), 7.43 (1H, dd, J = 8.7, 2.4Hz), 7.68 (1H, s), 7.98 (1H, d, J = 2.0Hz), 8.01 (1H, s), 8.03 (1H, s), 8.08 (1H, d, J = 2.2Hz), 8.14 (1H, s), 8.38 (1H, t, J = 5.2Hz)
47	1.98 (3H, s), 3.17 (3H, s), 4.53 (2H, s), 4.61 (2H, d, J = 5.6Hz), 5.20 (2H, s), 5.27 (2H, s), 7.17 (2H, d, J = 8.2Hz), 7.21 (2H, d, J = 8.2Hz), 7.22 (1H, s), 7.41 (1H, dd, J = 8.6, 2.0Hz), 7.52 (1H, s), 7.69 (1H, s), 7.99 (1H, d, J = 2.0Hz), 8.03 (1H, d, J = 8.6Hz), 8.22 (1H, s), 8.40 (1H, t, J = 5.7Hz)
48	0.72-0.75 (2H, m), 0.80-0.84 (2H, m), 2.50-2.55 (1H, m), 4.52 (2H, d, J = 5.9Hz), 5.06 (2H, s), 5.19 (2H, s), 6.21-6.25 (1H, m), 6.39 (1H, d, J = 9.0Hz), 7.18 (2H, d, J = 8.2Hz), 7.25 (2H, d, J = 8.2Hz), 7.27-7.30 (1H, m), 7.35-7.49 (4H, m), 7.77 (1H, dd, J = 1.9, 6.8Hz), 7.80 (1H, s), 7.98 (1H, s), 8.14 (1H, s), 8.31 (1H, t, J = 6.0Hz)
49	0.72-0.76 (2H, m), 0.79-0.84 (2H, m), 2.52-2.64 (1H, m), 4.40 (2H, d, J = 5.9Hz), 5.06 (2H, s), 5.19 (2H, s), 6.20-6.24 (1H, m), 6.39 (1H, d, J = 8.8Hz), 7.18 (2H, d, J = 8.2Hz), 7.25 (2H, d, J = 8.1Hz), 7.38-7.44 (4H, m), 7.72-7.77 (2H, m), 7.80 (1H, s), 7.95 (1H, s), 8.11 (1H, s), 8.40 (1H, t, J = 5.9Hz)
50	0.73-0.76 (2H, m), 0.79-0.84 (2H, m), 2.57-2.62 (1H, m), 4.41 (2H, d, J = 5.9Hz), 5.07 (2H, s), 5.19 (2H, s), 6.21-6.24 (1H, m), 6.39 (1H, d, J = 8.8Hz), 7.18 (2H, d, J = 8.2Hz), 7.25 (2H, d, J = 8.1Hz), 7.27-7.35 (4H, m), 7.39-7.43 (1H, m), 7.76 (1H, dd, J = 1.9, 6.5Hz), 7.81 (1H, d, J = 8.2Hz), 7.91 (1H, s), 8.11 (1H, s), 8.20 (1H, t, J = 6.0Hz)
51	4.52 (2H, d, J = 3.9Hz), 5.06 (2H, s), 5.31 (2H, s), 6.20-6.24 (1H, m), 6.38 (1H, t, J = 9.0Hz), 7.26 (4H, s), 7.39-7.45 (1H, m), 7.63 (3H, t, J = 2.0Hz), 7.76 (1H, dd J = 4.8, 1.9Hz), 8.35 (1H, s), 8.51 (1H, t, J = 4.5Hz)

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Example	
Number	Chemical shift
52	0.72-0.75 (2H, m), 0.79-0.82 (2H, m), 2.56-2.62 (1H, m), 3.82 (3H, s), 4.39 (2H, d, J = 5.7Hz), 5.06 (2H, s), 5.18 (2H, s), 6.21-6.24 (1H, m), 6.39 (1H, d, J = 8.9Hz), 6.86-6.90 (1H, m), 7.04-7.07 (2H, m), 7.18 (2H, d, J = 8.1Hz), 7.25 (2H, d, J = 8.1Hz), 7.39-7.43 (1H, m), 7.76 (1H, q, J = 5.1Hz), 8.12 (1H, s), 8.35 (1H, t, J = 5.9Hz)
53	3.2 (3H, s), 3.82 (3H, s), 4.41 (2H, d, J = 5.6Hz), 4.52 (2H, s), 5.07 (2H, s), 5.28 (2H, s), 6.22 (1H, td, J = 6.7, 1.4Hz), 6.39 (1H, d, J = 9.8Hz), 6.86-6.90 (1H, m), 7.05-7.10 (2H, m), 7.22-7.27 (4H, m), 7.39-7.43 (1H, m), 7.76 (1H, dd, J = 6.8, 1.9Hz), 8.24 (1H, s), 8.34 (1H, t, J = 5.7Hz)
54	3.16 (3H, s), 3.77 (6H, d, J = 1.8Hz), 4.39 (2H, dd, J = 1.6, 5.2Hz), 4.45 (2H, s), 5.05 (2H, s), 5.25 (2H, s), 6.21 (1H, td, J = 1.4, 6.7Hz), 6.36-6.40 (1H, m), 6.76 (1H, dd, J = 1.7, 9.1 Hz), 7.05 (1H, t, J = 9.4Hz), 7.17-7.27 (4H, m); 7.40 (1H, ddd, J = 2.1, 6.6, 8.9Hz), 7.74 (1H, dd, J = 2.1, 6.8Hz), 7.95 (1H, t, J = 5.1Hz), 8.21 (1H, s)
58	4.36 (2H, d, J = 5.9Hz), 5.04 (2H, s), 5.07 (2H, s), 5.37 (2H, s), 6.21-6.24 (1H, m), 6.39 (1H, d, J = 9.1Hz), 7.20 (2H, d, J = 8.1Hz), 7.26 (2H, d, J = 8.1Hz), 7.27-7.31 (2H, m), 7.38-7.43 (3H, m), 7.76 (1H, dd, J = 2.0, 6.8Hz), 7.97 (1H, s), 8.35 (1H, t, J = 5.9Hz)
59	2.72 (6H, s), 3.82 (3H, s), 4.41 (2H, d, J = 5.6Hz), 5.07 (2H, s), 5.17 (2H, s), 6.21-6.25 (1H, m), 6.40 (1H, d, J = 8.8Hz), 6.86-6.89 (1H, m), 7.04-7.07 (2H, m), 7.21-7.25 (4H, m), 7.39-7.41 (1H, m), 7.76 (1H, dd, J = 6.9, 1.6Hz), 8.07 (1H, s), 8.35 (1H, t, J = 5.8Hz)
62	3.20 (3H, s), 4.42 (2H, J = 5.7Hz), 4.53 (2H, s), 5.07 (2H, s), 5.28 (2H, s), 6.22 (1H, td, J = 6.7, 1.4Hz), 6.39 (1H, d, J = 9.2Hz), 7.13-7.38 (8H, m), 7.41 (1H, ddd, J = 8.9, 6.6, 2.1Hz), 7.76 (1H, dd, J = 6.8, 2.1Hz), 8.25 (1H, s), 8.35 (1H, t, J = 5.8Hz)
63	3.20 (3H, s), 4.53 (2H, s), 4.57 (2H, d, J = 5.7Hz), 5.07 (2H, s), 5.30 (2H, s), 6.22 (1H, td, J = 6.7, 1.4Hz), 6.40 (1H, d, J = 9.1Hz), 7.22-7.31 (4H, m), 7.41 (1H, ddd, J = 8.9, 6.5, 2.1Hz), 7.47 (1H, t, J = 7.6Hz), 7.54 (1H, d, J = 7.7Hz), 7.65 (1H, t, J = 7.6Hz), 7.72 (1H, d, J = 7.7Hz), 7.76 (1H, dd, J = 6.8, 2.1Hz), 8.29 (1H, s), 8.43 (1H, t, J = 5.8Hz)
64	3.20 (3H, s), 3.70 (3H, s), 4.38 (2H, d, J = 5.7Hz), 4.52 (2H, s), 5.07 (2H, s), 5.28 (2H, s), 6.22 (1H, td, J = 6.7, 1.4Hz), 6.39 (1H, d, J = 9.1Hz), 6.80-6.81 (2H, m), 7.10 (1H, dd, J = 9.6, 8.9Hz), 7.20-7.30 (4H, m), 7.41 (1H, ddd, J = 9.2, 6.6, 2.1Hz), 7.76 (1H, dd, J = 6.8, 2.1Hz), 8.25 (1H, s), 8.33 (1H, t, J = 5.7Hz)
65	2.28 (3H, s), 3.20 (3H, s), 4.37 (2H, d, J = 5.7Hz), 4.52 (2H, s), 5.06 (2H, s), 5.28 (2H, s), 6.22 (1H, td, J = 6.7, 1.4Hz), 6.39 (1H, d, J = 9.1Hz), 6.93-7.04 (2H, m), 7.18-7.30 (5H, m), 7.41 (1H, ddd, J = 9.2, 6.6, 2.1Hz), 7.75 (1H, dd, J = 6.8, 2.1Hz), 8.24 (1H, s), 8.30 (1H, t, J = 5.7Hz),

Example	Chamical shift
Number	Chemical shift
66	3.20 (3H, s), 3.81 (3H, s), 4.43 (2H, d, J = 5.3Hz), 4.49 (2H, s), 5.06 (2H, s), 5.26 (2H, s), 6.21 (1H, dt, J = 1.4, 6.7Hz), 6.39 (1H, ddd, J = 0.7, 1.4, 9.1Hz), 7.02 (1H, dt, J = 1.9, 9.2Hz), 7.12 (1H, dt, J = 5.3, 9.3Hz), 7.18-7.27 (4H, m), 7.40 (1H, ddd, J = 2.1, 6.6, 9.2Hz), 7.75 (1H, ddd, J = 0.7, 2.1, 6.8Hz), 8.21 (1H, s), 8.24 (1H, t, J = 5.3Hz)
67	3.21 (3H, s), 3.75 (3H, s), 4.35 (2H, d, J = 5.9Hz), 4.54 (2H, s), 5.07 (2H, s), 5.29 (2H, s), 6.22 (1H, dt, J = 1.4, 6.7Hz), 6.40 (1H, ddd, J = 0.7, 1.4, 9.2Hz), 6.82 (1H, dd, J = 1.4, 2.4Hz), 6.87-6.93 (2H, m), 7.21-7.31 (4H, m), 7.41 (1H, ddd, J = 2.1, 6.6, 9.2Hz), 7.76 (1H, ddd, J = 0.7, 2.1, 6.8Hz), 8.24 (1H, s), 8.39 (1H, t, J = 5.9Hz)
68	3.18 (3H, d, J = 0.7Hz), 4.53 (4H, d, J = 8.8Hz), 5.07 (2H, s), 5.29 (2H, s), 6.22 (1H, tt, J = 1.0, 6.7Hz), 6.39 (1H, d, J = 9.2Hz), 7.13-7.45 (8H, m), 7.51 (1H, t, J = 7.5Hz), 7.58 (1H, d, J = 7.7Hz), 7.76 (1H, dd, J = 2.0, 6.8Hz), 8.25 (1H, s), 8.39 (1H, t, J = 5.9Hz)
69	3.19 (3H, s), 3.83 (3H, s), 4.52 (2H, s), 4.59 (2H, d, J = 5.8 Hz), 5.07 (2H, s), 5.29 (2H, s), 6.22 (1H, td, J = 1.4, 6.7Hz), 6.39 (1H, dt, J = 1.0, 9.1Hz), 7.01 (1H, d, J = 7.8Hz), 7.06 (1H, d, J = 8.4Hz), 7.14-7.48 (7H, m), 7.76 (1H, ddd, J = 0.7, 2.1, 6.8Hz), 8.27 (1H, s), 8.34 (1H, t, J = 5.9Hz)
70	4.14 (2H, d, J = 6.2Hz), 4.55 (2H, br.s), 5.04 (2H, s), 6.20 (1H, td, J = 6.7, 1.3Hz), 6.38 (1H, d, J = 9.2Hz), 7.20-7.29 (4H, m), 7.37-7.42 (1H, m), 7.57 (1H, d, J = 3.8Hz), 7.60 (3H, br.s), 7.74 (2H, dd, J = 6.7, 1.9Hz), 8.40 (1H, br.s), 12.01 -12.19 (1H, m)
71	1.98 (3H, s), 3.83 (3H, s), 4.41 (2H, d, J = 5.8Hz), 5.04 (2H, s), 5.59 (2H, s), 6.22 (1H, td, J = 6.7, 1.4Hz), 6.39 (1H, dd, J = 9.1, 0.5Hz), 6.79-6.83 (1H, m), 7.03-7.05 (2H, m), 7.08-7.10 (2H, m), 7.19 (1H, s), 7.21 (1H, s), 7.22 (1H, s), 7.39-7.43 (1H, m), 7.74 (1H, dd, J = 6.7, 1.9Hz), 9.13 (1H, t, J = 5.9Hz), 10.53 (1H, s)
72	1.93 (3H, s), 3.10 (3H, s), 3.83 (3H, s), 4.42 (2H, d, J = 4.8Hz), 5.05 (2H, s), 5.64 (2H, s), 6.22 (1H, td, J = 6.7, 1.3Hz), 6.40 (1H, d, J = 9.5Hz), 6.79-6.81 (1H, m), 6.87 (1H, br.s), 7.03-7.06 (2H, m), 7.07-7.11 (2H, m), 7.18-7.21 (2H, m), 7.39-7.44 (1H, m), 7.75 (1H, dd, J = 6.8, 1.9Hz), 9.08 (1H, br.s)
73	3.22 (3H, s), 4.46 (2H, d, J = 5.3Hz), 4.51 (2H, s), 5.07 (2H, s), 5.27 (2H, s), 6.22 (1H, td, J = 1.4, 6.7Hz), 6.40 (1H, d, J = 8.5Hz), 7.15 - 7.29 (5H, m), 7.38 - 7.46 (1H, m), 7.54 - 7.64 (1H, m), 7.76 (1H, dd, J = 1.5, 6.8Hz), 8.20 (1H, s), 8.34 (1H, t, J = 5.4Hz)
76	3.22 (3H, s), 4.54 (4H, m), 5.07 (2H, s), 5.30 (2H, s), 6.22 (1H, td, J = 1.4, 6.7Hz), 6.40 (1H, ddd, J = 0.7, 1.4, 9.1Hz), 7.20-7.30 (4H, m), 7.41 (1H, ddd, J = 2.1, 6.6, 9.2Hz), 7.52-7.59 (2H, m), 7.76 (1H, ddd, J = 0.7, 2.1, 6.8Hz), 7.84-7.91 (1H, m), 8.26 (1H, s), 8.58 (1H, t, J = 5.7Hz)

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Example **Chemical shift** Number 3.21 (3H, s), 3.92 (3H, s), 4.47-4.55 (4H, m), 5.06 (2H, s), 5.27 (2H, s), 6.21 (1H, td, J = 3.21 (3H, s), 3.92 (3H, s), 4.47-4.55 (4H, m), 5.06 (2H, s), 5.27 (2H, s), 6.21 (1H, td, J = 3.21 (3H, s), 3.92 (3H, s), 4.47-4.55 (4H, m), 5.06 (2H, s), 5.27 (2H, s), 6.21 (1H, td, J = 3.21 (3H, s), 4.47-4.55 (4H, m), 5.06 (2H, s), 5.27 (2H, s), 6.21 (1H, td, J = 3.21 (3H, s), 6.21 (6.7, 1.4Hz), 6.39 (1H, d, J = 9.1Hz), 7.17-7.31 (5H, m), 7.40 (1H, ddd, J = 8.9, 6.6, 2.1Hz), 77 7.67 (1H, dd, J = 8.6, 1.5Hz), 7.75 (1H, dd, J = 6.8, 2.1Hz), 8.20 (1H, s), 8.40 (1H, t, J = 7.67)5.2Hz) 3.20 (3H, s), 3.86 (3H, s), 4.49-4.56 (4H, m), 5.07 (2H, s), 5.29 (2H, s), 6.22 (1H, td, J = 3.20 (3H, s), 3.86 (3H, s), 4.49-4.56 (4H, m), 5.07 (2H, s), 5.29 (2H, s), 6.22 (1H, td, J = 3.20 (3H, s), 3.86 (3H, s), 4.49-4.56 (4H, m), 5.07 (2H, s), 5.29 (2H, s), 6.22 (1H, td, J = 3.20 (3H, s), 5.20 (2H, s), 6.22 (1H, td, J = 3.20 (3H, s), 6.22 (3H, (3H, s), 6.21.4, 6.7Hz), 6.39 (1H, ddd, J = 0.7, 1.4, 9.2Hz), 7.07 (1H, d, J = 7.8Hz), 7.18 (1H, d, J = 7.878 8.4Hz), 7.22-7.29 (4H, m), 7.39-7.44 (1H, m), 7.55 (1H, t, J = 8.1Hz), 7.76 (1H, ddd, J = 0.7, 2.1, 6.8Hz), 8.27 (1H, s), <math>8.34 (1H, t, J = 5.8Hz) 3.20 (3H, s), 3.79 (3H, s), 4.53 (4H, m), 5.07 (2H, s), 5.30 (2H, s), 6.22 (1H, td, J = 1.4, J = 1.4)6.7Hz), 6.40 (1H, dt, J = 1.0, 9.1Hz), 6.96-7.05 (2H, m), 7.22-7.31 (4H, m), 7.41 (1H, ddd, 79 J = 2.1, 6.6, 8.9Hz), 7.66 (1H, d, J = 8.6Hz), 7.76 (1H, ddd, J = 0.7, 2.1, 6.8Hz), 8.29 (1H, s), 8.40 (1H, t, J = 5.8Hz) 3.16 (3H, s), 4.43-4.52 (4H, m), 5.05 (2H, s), 5.26 (2H, s), 6.21 (1H, td, J = 1.4, 6.7Hz),80 6.39 (1H, dt, J = 1.0, 9.2Hz), 7.23 (4H, q, J = 8.3Hz), 7.31-7.62 (5H, m), 7.75 (1H, ddd, J = 0.7, 2.1, 6.8Hz), 8.22 (1H, s), 8.33 (1H, t, J = <math>5.4Hz) 3.18 (3H, s), 3.76 (3H, s), 4.51 (4H, m), 5.07 (2H, s), 5.29 (2H, s), 6.22 (1H, td, J = 1.4, J = 1.4)6.7Hz), 6.40 (1H, dt, J = 1.2, 9.0Hz), 6.88-6.98 (2H, m), 7.03-7.33 (5H, m), 7.41 (1H, ddd, 81 J = 2.1, 6.6, 8.9Hz, 7.51 (1H, d, J = 9.1Hz), 7.76 (1H, ddd, J = 0.7, 2.1, 6.8Hz), 8.26 (1H, s), 8.38 (1H, t, J = 5.8Hz) 3.12 (3H, s), 3.83 (3H, s), 4.43 (2H, s), 4.52-4.59 (2H, m), 5.05 (2H, s), 5.25 (2H, s), 6.21 83 (1H, td, J = 1.4, 6.7Hz), 6.39 (1H, dt, J = 1.0, 9.2Hz), 7.15-7.44 (8H, m), 7.75 (1H, ddd, J = 1.0, 9.2Hz)0.7, 2.1, 6.8Hz), 8.08 (1H, t, J = 4.9Hz), 8.22 (1H, s)3.17 (3H, s), 4.44 (2H, s), 4.54 (2H, d, J = 5.2 Hz), 5.05 (2H, s), 5.25 (2H, s), 6.21 (1H, td, J = 5.2 Hz), 5.05 (2H, s), 5.25 (2H, s), 6.21 (1H, td, J = 5.2 Hz), 5.05 (2H, s), 5.25 (2H, s), 6.21 (1H, td, J = 5.2 Hz), 5.05 (2H, s), 5.25 (2H, s), 6.21 (1H, td, J = 5.2 Hz), 5.05 (2H, s), 5.25 (2H, s), 6.21 (1H, td, J = 5.2 Hz), 5.05 (2H, s), 5.25 (2H, s), 6.21 (1H, td, J = 5.2 Hz), 5.05 (2H, s), 5.25 (2H, s), 6.21 (1H, td, J = 5.2 Hz), 5.05 (2H, s), 5.25 (2H, s), 6.21 (1H, td, J = 5.2 Hz), 5.05 (2H, s), 5.25 (2H, s), 6.21 (1H, td, J = 5.2 Hz), 5.05 (2H, s), 5.25 (2H, s), 6.21 (1H, td, J = 5.2 Hz), 5.05 (2H, s), 5.25 (2H, s), 6.21 (2H, td, J = 5.2 Hz), 6.21 (2H85 = 6.7, 1.4Hz), 6.39 (1H, d, J = 9.2Hz), 7.14-7.32 (6H, m), 7.34-7.44 (2H, m), 7.60 (1H, s),7.75 (1H, dd, J = 6.8, 2.1Hz), 8.07-8.18 (2H, m), 8.21 (1H, s) 3.21 (3H, s), 3.74 (3H, s), 4.50 (2H, s), 4.55 (2H, d, J = 5.9Hz), 5.06 (2H, s), 5.28 (2H, s), 6.22 (1H, td, J = 6.7, 1.4Hz), 6.39 (1H, d, J = 9.1Hz), 6.82-6.91 (2H, m), 7.18-7.33 (5H, 86 m), 7.41 (1H, ddd, J = 8.9, 6.6, 2.1Hz), 7.49 (1H, d, J = 8.4Hz), 7.76 (1H, d, J = 6.8, 2.1Hz), 7.81 (1H, br. s), 8.25 (1H, s), 8.30 (1H, t, J = 6.0Hz) 3.21 (3H, s), 4.50 (2H, s), 4.70 (2H, d, J = 5.9Hz), 5.06 (2H, s), 5.28 (2H, s), 6.22 (1H, td, J)= 1.4, 6.7Hz), 6.39 (1H, dd, J = 1.3, 9.1Hz), 7.21-7.28 (4H, m), 7.32-7.44 (3H, m), 7.5187 (1H, td, J = 1.5, 7.5 Hz), 7.76 (1H, dd, J = 2.1, 6.8 Hz), 7.86 (1H, dd, J = 1.4, 7.8 Hz), 8.26(1H, s), 8.34 (1H, t, J = 5.9 Hz), 13.08 (1H, br. s)

Example	
Number	Chemical shift
90	3.21 (3H, s), 4.45 (2H, d, J = 5.8Hz), 4.53 (2H, s), 5.07 (2H, s), 5.29 (2H, s), 6.22 (1H, td, J = 6.7, 1.4Hz), 6.39 (1H, d, J = 9.2Hz), 7.16-7.31 (7H, m), 7.24 (1H, t, J = 72Hz), 7.38-7.44 (1H, m), 7.77 (1H, dd, J = 6.8, 2.1Hz), 8.26 (1H, s), 8.45 (1H, t, J = 5.8Hz)
91	3.20 (3H, s), 4.40 (2H, d, J = 5.9Hz), 4.54 (2H, s), 5.07 (2H, s), 5.29 (2H, s), 6.22 (1H, td, J = 6.7, 1.4Hz), 6.39 (1H, d, J = 9.1Hz), 7.02-7.10 (2H, m), 7.16 (1H, d, J = 7.7Hz), 7.20 (1H, t, J = 72Hz), 7.21-7.29 (4H, m), 7.35-7.43 (2H, m), 7.76 (1H, dd, J = 6.8, 2.1 Hz), 8.24 (1H, s), 8.41 (1H, t, J = 5.9Hz)
92	3.18 (3H, s), 4.43 (2H, d, J = 5.3Hz), 4.47 (2H, s), 5.05 (2H, s), 5.25 (2H, s), 6.21 (1H, td, J = 6.6, 1.4Hz), 6.39 (1H, d, J = 9.2Hz), 7.07 (1H, d, J = 8.3Hz), 7.14 (1H, t, J = 8.5Hz), 7.20 (2H, d, J = 8.2Hz), 7.24 (1H, t, J = 72Hz), 7.25 (2H, d, J = 8.3Hz), 7.36-7.47 (2H, m), 7.75 (1H, dd, J = 6.8, 2.1Hz), 8.11 (1H, t, J = 5.1Hz), 8.20 (1H, s)
94	3.21 (3H, s), 4.40 (2H, d, J = 5.8Hz), 4.53 (2H, s), 5.07 (2H, s), 5.29 (2H, s), 6.22 (1H, td, J = 1.4, 6.7Hz), 6.39 (1H, dt, J = 1.0, 9.1Hz), 7.15 (2H, dd, J = 4.9, 8.4Hz), 7.20-7.30 (5H, m), 7.41 (1H, ddd, J = 2.1, 6.6, 8.9Hz), 7.76 (1H, ddd, J = 0.7, 2.1, 6.8Hz), 8.25 (1H, s), 8.40 (1H, t, J = 5.8Hz)
95	3.21 (3H, s), 3.75 (3H, s), 4.36 (2H, d, J = 5.9Hz), 4.55 (2H, s), 5.08 (2H, s), 5.30 (2H, s), 6.19-6.27 (1H, m), 6.40 (1H, dd, J = 0.6, 9.2Hz), 6.65-6.75 (3H, m), 7.22-7.31 (4H, m), 7.41 (1H, ddd, J = 2.1, 6.6, 9.0Hz), 7.73-7.81 (1H, m), 8.25 (1H, s), 8.39 (1H, t, J = 5.9Hz)
96	3.21 (3H, s), 3.84 (3H, s), 4.39 (2H, d, J = 5.7Hz), 4.53 (2H, s), 5.07 (2H, s), 5.28 (2H, s), 6.22 (1H, td, J = 6.7, 1.4Hz), 6.39 (1H, d, J = 9.1Hz), 6.68 (1H, ddd, J = 9.0, 4.9, 3.1Hz), 7.02 (1H, ddd, J = 10.1, 6.8, 3.1Hz), 7.19-7.30 (4H, m), 7.41 (1H, ddd, J = 8.9, 6.6, 2.1Hz), 7.76 (1H, dd, J = 6.8, 2.1Hz), 8.25 (1H, s), 8.39 (1H, t, J = 5.8 Hz)
97	2.37 (3H, s), 3.15 (3H, s), 4.42 (2H, dd, J = 1.7, 5.1Hz), 4.48 (2H, s), 5.05 (2H, s), 5.25 (2H, s), 6.21 (1H, td, J = 1.4, 6.7Hz), 6.39 (1H, dt, J = 0.9, 9.2Hz), 7.02 (2H, dd, J = 8.0, 11.8Hz), 7.16-7.29 (5H, m), 7.40 (1H, ddd, J = 2.1, 6.6, 8.9Hz), 7.74 (1H, ddd, J = 0.7, 2.1, 6.8Hz), 8.04 (1H, t, J = 5.2Hz), 8.22 (1H, s)
99	3.18 (3H, s), 3.84 (3H, s), 4.49 (4H, d, J = 4.9Hz), 5.06 (2H, s), 5.26 (2H, s), 6.21 (1H, dt, J = 1.4, 6.7Hz), 6.39 (1H, ddd, J = 0.7, 1.4, 9.1Hz), 7.12-7.28 (6H, m), 7.40 (1H, ddd, J = 2.1, 6.6, 8.9Hz), 7.75 (1H, ddd, J = 0.7, 2.1, 6.7Hz), 8.14 (1H, t, J = 5.1Hz), 8.21 (1H, s)
129	3.20 (3H, s), 4.38 (2H, d, J = 5.6Hz), 4.52 (2H, s), 5.07 (2H, s), 5.28 (2H, s), 6.21 (1H, dt, J = 6.6, 1.2Hz), 6.39 (1H, d, J = 9.1Hz), 6.73 (1H,dt, J = 6.4, 1.4Hz), 6.83 (1H, dt, J = 8.2, 1.7Hz), 6.91 (1H, t, J = 7.9Hz), 7.23 (2H, d, J = 8.3Hz), 7.26 (2H, d, J = 8.2Hz), 7.38-7.43 (1H, m), 7.75 (1H, dd, J = 6.8, 1.7Hz), 8.24 (1H, s), 8.28 (1H, t, J = 5.1Hz), 9.73 (1H, br. s)

Example	
Number	Chemical shift
130	4.35 (2H, d, J = 5.7Hz), 5.03 (2H, s), 5.07 (2H, s), 5.36 (2H, br. s), 6.22 (1H, dt, J = 6.6, 1.2 Hz), 6.39 (1H, d, J = 8.8Hz), 6.70 (1H, dt, J = 7.6, 1.4Hz), 6.82 (1H, dt, J = 8.3, 1.6Hz), 6.90 (1H, t, J = 7.8Hz), 7.20 (2H, d, J = 8.1Hz), 7.26 (2H, d, J = 8.1Hz), 7.38-7.43 (1H, m), 7.75 (1H, dd, J = 7.0, 1.8Hz), 7.99 (1H, s), 8.20 (1H, t, J = 5.6Hz), 9.70 (1H, br. s)
131	3.20 (3H, s), 3.84 (3H, s), 4.50 (2H, s), 4.68 (2H, d, J = 5.8Hz), 5.06 (2H, s), 5.28 (2H, s), 6.22 (1H, dt, J = 1.4, 6.7Hz), 6.39 (1H, ddd, J = 0.6, 1.3, 9.1Hz), 7.22-7.28 (4H, m), 7.36-7.43 (2H, m), 7.45 (1H, dd, J = 1.2, 7.9Hz), 7.56 (1H, dt, J = 1.5, 7.5Hz), 7.77 (1H, ddd, J = 0.7, 2.1, 6.8Hz), 7.86 (1H, dd, J = 1.4, 7.8Hz), 8.26 (1H, s), 8.32 (1H, t, J = 5.9Hz)
132	1.16 (3H, t, J = 7.5Hz), 2.62 (2H, q, J = 7.6Hz), 3.20 (3H, s), 4.41 (2H, d, J = 5.7Hz), 4.52 (2H, s), 5.06 (2H, s), 5.28 (2H, s), 6.22 (1H, td, J = 6.7, 1.4Hz), 6.39 (1H, d, J = 9.2Hz), 7.07 (1H, t, J = 7.5Hz), 7.13-7.30 (6H, m), 7.41 (1H, ddd, J = 8.9, 6.6, 2.1Hz), 7.77 (1H, dd, J = 6.8, 2.1Hz), 8.26 (1H, s), 8.35 (1H, t, J = 5.8Hz)
133	3.19 (3H, s), 3.72 (3H, s), 4.35 (2H, d, J = 5.8Hz), 4.53 (2H, s), 5.06 (2H, s), 5.28 (2H, s), 6.22 (1H, dt, J = 1.4, 6.7Hz), 6.39 (1H, dt, J = 1.0, 9.1Hz), 6.78-6.83 (1H, m), 6.83-6.88 (2H, m), 7.18-7.30 (5H, m), 7.41 (1H, ddd, J = 2.1, 6.6, 8.9Hz), 7.77 (1H, ddd, J = 0.7, 2.1, 6.7Hz), 8.25 (1H, s), 8.36 (1H, t, J = 5.9Hz)
104	3.20 (3H, s), 3.82 (3H, s), 4.41(2H, d, J = 5.7Hz), 4.52 (2H, s), 5.05 (2H, s), 5.29 (2H, s), 6.87-6.90 (1H, m), 7.04-7.10 (2H, m), 7.25(2H, d, J = 8.1Hz), 7.30-7.35 (3H, m), 7.76 (1H, dd, J = 4.3, 1.0Hz), 8.02 (1H, d, J = 1.2Hz), 8.26 (1H, s), 8.36 (1H, t, J = 5.7Hz)
106	2.10 (3H, d, J = 0.6Hz), 3.20 (3H, s), 3.81 (3H, s), 4.43 (2H, d, J = 5.3Hz), 4.49 (2H, s), 5.01 (2H, s), 5.25 (2H, s), 6.07 (1H, dd, J = 6.9, 1.9Hz), 6.20 (1H, s), 7.01 (1H, td, J = 9.2, 1.7Hz), 7.09-7.15 (1H, m), 7.18-7.24 (4H, m), 7.61 (1H, d, J = 6.9Hz), 8.20 (1H, s), 8.23 (1H, t, J = 5.0Hz)
108	3.20 (3H, s), 3.81 (3H, s), 2.50 (2H, d, J = 3.6Hz), 4.49 (2H, s), 5.00 (2H, s), 5.26 (2H, s), 6.43 (1H, dd, J = 10.0, 5.4Hz), 7.01 (1H, td, J = 9.2, 1.7Hz), 7.09-7.15 (1H, m), 7.21 (2H, d, J = 8.2Hz), 7.27 (2H, d, J = 8.2Hz), 7.53-7.58 (1H, m), 8.01 (1H, dd, J = 4.6, 3.4Hz), 8.21 (1H, s), 8.23 (1H, t, J = 5.2Hz)
109	2.50 (3H, t, J = 1.8Hz), 3.20 (3H, s), 3.81 (3H, s), 3.98 (2H, q, J = 7.0Hz), 4.43 (2H, d, J = 5.1Hz), 4.49 (2H, s), 4.98 (2H, s), 5.25 (2H, s), 5.77 (1H, d, J = 2.7Hz), 5.92 (1H, dd, J = 7.6, 2.9Hz), 7.01 (1H, td, J = 9.2, 1.7Hz), 7.09-7.15 (1H, m), 7.18-7.23 (4H, m), 7.61 (1H, d, J = 7.6Hz), 8.20 (1H, s), 8.23 (1H, t, J = 5.1Hz)
121	2.26 (3H, s), 3.81 (3H, s), 4.41 (2H, d, J=6.3Hz), 5.07 (2H, s), 5.16 (2H, s), 6.22 (1H, ddd, J = 6.6, 6.6, 1.4Hz), 6.40 (1H, d, J = 8.8Hz), 6.81-6.85 (1H, m), 7.00-7.07 (2H, m), 7.17 (2H, d, J = 8.2Hz), 7.27 (2H, d, J = 8.1Hz), 7.41 (1H, ddd, J = 8.9, 6.5, 2.0Hz), 7.64 (1H, s), 7.76 (1H, dd, J = 6.7, 2.0Hz), 8.31 (1H, t, J = 6.0Hz)

Example Number	Chemical shift
124	3.82 (3H, s), 4.44 (2H, d, J = 6.2Hz), 5.08 (2H, s), 5.40 (2H, s), 6.22 (1H, dt, J = 6.6, 1.4Hz), 6.40 (1H, d, J = 8.9Hz), 6.85 (1H, dt, J = 6.6, 1.8Hz), 7.01-7.08 (2H, s), 7.19 (2H, d, J = 8.1Hz), 7.28 (2H, d, J = 8.1Hz), 7.41 (1H, ddd, J = 8.8. 6.6, 2.1Hz), 7.75 (1H, dd, J = 6.6, 1.7Hz), 8.09 (1H, s), 8.68 (1H, br. s)
126	1.90-1.94 (4H, m), 3.31-3.37 (4H, m), 3.82 (3H, s), 4.39 (2H, d, J = 5.6Hz), 5.26(2H,s), 6.44 (1H, d, J = 8.6Hz), 6.85-6.90 (1H, m), 7.03-7.10 (2H, m), 7.50 (1H, dd, J = 8.8,2.4Hz), 8.14 (1H, d, J = 2.3Hz), 8.36 (1H, d, J = 0.6Hz), 8.74 (1H, t, J = 5.8Hz)
139	2.81 (3H, s), 2.98 (1H, dd, J = 12.0, 7.3Hz), 3.26 (1H, dd, J = 12.0, 2.6Hz), 3.35-3.45 (2H, m), 4.26-4.28 (1H, m), 5.04 (2H, s), 5.07 (2H, s), 5.37 (2H, br. s), 6.22 (1H, td, J = 6.6, 1.3Hz), 6.40 (1H, d, J = 8.8Hz), 6.68 (1H, d, J = 8.7Hz), 6.73 (1H, d, J = 2.4Hz), 6.80 (1H, dd, J=8.6, 2.4Hz), 7.21 (2H, d, J = 8.2Hz), 7.27 (2H, d, J = 8.1Hz), 7.39-7.43 (1H,m), 7.76 (1H, dd, J = 7.0, 1.9Hz), 7.99 (1H, s), 8.00 (1H, t, J = 5.7Hz)
140	2.96-3.02 (1H, m), 3.29-3.34 (1H, m), 3.34-3.43 (2H, m), 4.07-4.12 (1H, m), 5.04 (2H, s), 5.07 (2H, s), 5.36 (2H, br. s), 5.93 (1H, br. s), 6.22 (1H, td, J = 6.7, 1.4Hz), 6.40 (1H, d, J = 9.9Hz), 6.55-6.58 (1H, m), 6.68-6.71 (2H, m), 7.21 (2H, d, J = 8.1Hz), 7.27 (2H, d, J = 8.2Hz), 7.39-7.43 (1H, m), 7.76 (1H, dd, J = 7.0, 2.0Hz), 7.98 (1H, t, J = 5.8Hz), 7.99 (1H, s)

Biological Methods

The ability of the compounds of formula (I) to inhibit plasma kallikrein may be determined using the following biological assays:

Determination of the IC50 for plasma kallikrein

Plasma kallikrein inhibitory activity *in vitro* was determined using standard published methods (see e.g. Johansen *et al.*, Int. J. Tiss. Reac. 1986, **8**, 185; Shori *et al.*, Biochem. Pharmacol., 1992, **43**, 1209; Stürzebecher *et al.*, Biol. Chem. Hoppe-Seyler, 1992, **373**, 1025). Human plasma kallikrein (Protogen) was incubated at 25 °C with the fluorogenic substrate H-DPro-Phe-Arg-AFC and various concentrations of the test compound. Residual enzyme activity (initial rate of reaction) was determined by measuring the change in optical absorbance at 410nm and the IC₅₀ value for the test compound was determined.

Data acquired from these assays are shown in Table 14.

Selected compounds were further screened for inhibitory activity against the related enzyme KLK1. The ability of the compounds of formula (I) to inhibit KLK1 may be determined using the following biological assay:

Determination of the IC50 for KLK1

KLK1 inhibitory activity *in vitro* was determined using standard published methods (see e.g. Johansen *et al.*, Int. J. Tiss. Reac. 1986, **8**, 185; Shori *et al.*, Biochem. Pharmacol., 1992, **43**, 1209; Stürzebecher *et al.*, Biol. Chem. Hoppe-Seyler, 1992, **373**, 1025). Human KLK1 (Callbiochem) was incubated at 25 $^{\circ}$ C with the fluorogenic substrate H-DVal-Leu-Arg-AFC and various concentrations of the test compound. Residual enzyme activity (initial rate of reaction) was determined by measuring the change in optical absorbance at 410nm and the IC50 value for the test compound was determined.

Data acquired from this assay are shown in Table 14.

Selected compounds were further screened for inhibitory activity against the related enzyme FXIa. The ability of the compounds of formula (I) to inhibit FXIa may be determined using the following biological assay:

Determination of the % inhibition for FXIa

FXIa inhibitory activity *in vitro* was determined using standard published methods (see e.g. Johansen *et al.*, Int. J. Tiss. Reac. 1986, **8**, 185; Shori *et al.*, Biochem. Pharmacol., 1992, **43**, 1209; Stürzebecher *et al.*, Biol. Chem. Hoppe-Seyler, 1992, **373**, 1025). Human FXIa (Enzyme Research Laboratories) was incubated at 25 °C with the fluorogenic substrate Z-Gly-Pro-Arg-AFC and 40 μ M of the test compound. Residual enzyme activity (initial rate of reaction) was determined by measuring the change in optical absorbance at 410nm.

Data acquired from this assay are shown in Table 14

Table 14

	Example Number	IC₅₀ (human PKal) nM	IC50 (human KLK1) nM	% Inhibition @ 40μM (human FXIa)
h	1	698	>10000	0

Example Number	IC₅₀ (human PKal) nM	IC50 (human KLK1) nM	% Inhibition @ 40μM (human FXIa)	
2	8.7	>10000	8	
3	2580	>10000 3		
4	136	>10000		
5	364	>10000		
6	2360	>10000	0	
7	>10000	>10000		
8	539	>10000		
9	239	>10000		
10	1270	>10000		
11	456	>10000		
12	746	>10000		
13	439	>10000)	
14	514	>10000		
15	219	>10000		
16	263	>10000		
17	865	>10000		
18	373	>10000		
19	1130	>10000		
20	740	>10000		
21	257	>10000		

Example Number	IC₅₀ (human PKal) nM	IC50 (human KLK1) nM	% Inhibition @ 40μM (human FXIa)	
22	1350	>10000		
23	1060	>10000		
24	717	>10000		
25	1840	>10000	***************************************	
26	1340	>10000		
27	>10000	>10000		
28	280	>10000		
29	2190	>10000		
30	915	>10000		
31	392	>10000		
32	7870	>10000		
36	4170	>10000	0	
37	392	>10000	0	
39	7870	>10000 0		
40	3700	>10000	1	
41	3.3	>40000	0	
42	831	>10000	1	
45	144	>10000		
46	2400	>10000		
47	753	>10000		

Example Number	IC50 (human PKal) nM	IC50 (human KLK1) nM	% Inhibition @ 40μM (human FXIa)	
48	647	>10000	2	
49	5450 >10000		0	
50	50 1800 >10000			
51	48.9	>40000		
52	23.3	>40000	1	
53	20.2	>10000		
54	2.1	>40000	17	
58	5780	>10000	0	
59	73.4	>10000	0	
62 572		>10000	0	
63	342 >10000		О	
64	35.2	>10000	0	
65	65 43.3 >10000		0	
66 4.6 >10		>10000	4	
67 393		>10000	0	
68	81.1	>10000	6	
69 16.8		>40000	0	
70	26.7	>10000	6	
71	300	>10000	0	
72 6610		>10000	1	

Example Number	IC₅₀ (human PKal) nM	IC50 (human KLK1) nM	% Inhibition @ 40μM (human FXIa)	
73	120	>10000	8	
76	28.3	>40000	00 5	
77	0.6	>40000	28	
78	612	>10000	0	
79	14.7	>40000	2	
80	20.4	>40000		
81	2.3	>40000	1	
83	6.8	>40000	14	
85	79.2	>40000	46	
86	8.7	>40000		
87	>10000	>10000	2	
90	154	>40000	2	
91	523	>10000	0	
92	16.0	>10000	4	
94	780	>10000	0	
95	308	>40000	1	
96	75.0	>40000 0		
97	153	>10000 0		
99	6.4	>10000 4		
129	437	>40000 0		

Example Number	IC50 (human PKal) nM	IC50 (human KLK1) nM	% Inhibition @ 40μM (human FXIa)	
130	174	>40000	0	
131	1510	>10000	0	
132	135	>40000	0	
133	90.2	>10000	1	
104 691		>10000	0	
106	140	>10000	2	
108	5.5	>10000		
109	2980	>10000	2	
121	43.9	>10000	0	
124 191		>10000	0	
126	742	>10000	10	
139	64.7	>40000	33	
140	10.6	>40000	9	

Pharmacokinetics

Pharmacokinetic studies of the compounds in Table 15 were performed to assess the pharmacokinetics following a single oral dose in male Sprague-Dawley rats. Two rats were given a single po dose of 5 mL/kg of a nominal 2 mg/mL (10 mg/kg) composition of test compound in vehicle. Following dosing, blood samples were collected over a period of 24 hours. Sample times were 5, 15 and 30 minutes then 1, 2, 4, 6, 8 and 12 hours. Following collection, blood samples were centrifuged and the plasma fraction analysed for concentration of test compound by LCMS. Oral exposure data acquired from these studies are shown below:

Table 15: Oral exposure data

Example Number	Vehicle	Dose po (mg/kg)	Cmax (ng/mL)	Tmax (min)
2	10% DMSO / 10% cremophor / 80% SWFI	9.5	351	60
41	10% DMSO / 10% cremophor / 80% SWFI	10.5	1534	180
51	5% cremophor / 5% ethanol / 90% phosphate buffered saline	13.7	101	15
52	10% DMSO / 10% cremophor / 80% SWFI	17.9	1472	45
53	10% DMSO / 10% cremophor / 80% SWFI	8.6	1031	15
66	10% DMSO / 10% cremophor / 80% SWFI	11.3	2892	60
77	10% DMSO / 10% cremophor / 80% SWFI	5.5	397	30

CLAIMS

1. A pharmaceutical composition comprising: (i) a pharmaceutically acceptable carrier, diluent or excipient, and (ii) a compound of formula (I), or a tautomer, stereoisomer, or a pharmaceutically acceptable salt or solvate thereof, wherein the compound of formula (I) is,

Formula (I)

wherein

B is phenyl substituted with 1 to 4 substituents selected from alkyl^b, alkoxy, OH, halo, CN, heteroaryl, COOR8, NHCOR8, CONR8R9, OCF₃, and CF₃; or B is selected from benzothiophenyl, benzofuranyl, benzomorpholinyl and a 5 or 6 membered heterocyclic ring containing one or two heteroatoms selected from N, O and S; wherein said 5 or 6 membered heterocyclic ring may be aromatic or non-aromatic; and wherein said benzothiophenyl, said benzofuranyl, said benzomorpholinyl or said 5 or 6 membered heterocyclic ring is substituted with 1 to 3 substituents selected from alkyl^b, alkoxy, OH, oxo, halo, CN, heteroaryl, COOR8, NHCOR8, CONR8R9, OCF₃ and CF₃;

W is C and X, Y and Z are independently selected from C, N, O and S, such that the ring containing W, X, Y and Z is a five membered aromatic heterocycle;

R5 and R6 are independently absent or independently selected from H, alkyl, cycloalkyl, -NR8R9, CN, -NR8COR9 and CF₃; wherein at least one of R5 and R6 is present and is not H;

25 R7 is H;

A is selected from aryl and heteroaryl; wherein aryl is substituted with 1, 2 or 3 substituents independently selected from alkyl, alkoxy, methylenedioxy, ethylenedioxy, OH, halo, CN, heteroaryl, -(CH₂)₀₋₃-O-heteroaryl, aryl^b, -O-aryl^b, -(CH₂)₁₋₃-aryl^b, -(CH₂)₁₋₃-heteroaryl, -COOR10, -CONR10R11, -(CH₂)₀₋₃-NR10R11, OCF₃ and CF₃; and heteroaryl is substituted with 1, 2 or 3 substituents independently selected from alkyl, alkoxy, OH, OCF₃, halo, CN, aryl, -(CH₂)₁₋₃-aryl, -(CH₂)₀₋₃-NR10R11, heteroaryl^b, -COOR10, -CONR10R11 and CF₃;

R8 and R9 are independently selected from H and alkyl;

- alkyl is a linear saturated hydrocarbon having up to 10 carbon atoms (C₁-C₁₀) or a branched saturated hydrocarbon of between 3 and 10 carbon atoms (C₃-C₁₀); alkyl may optionally be substituted with 1 or 2 substituents independently selected from (C₁-C₆)alkoxy, OH, CN, CF₃, COOR10, CONR10R11, fluoro and NR10R11;
- alkyl^b is a linear saturated hydrocarbon having up to 6 carbon atoms or a branched saturated hydrocarbon of between 3 and 6 carbon atoms (C₃₋₆); alkyl^b may optionally be substituted with 1 or 2 substituents independently selected from (C₁-C₆)alkoxy, OH, CN, CF₃, COOR10, CONR10R11 and fluoro;
- 20 cycloalkyl is a monocyclic saturated hydrocarbon of between 3 and 6 carbon atoms;
 - alkoxy is a linear O-linked hydrocarbon of between 1 and 6 carbon atoms (C_1 - C_6) or a branched O-linked hydrocarbon of between 3 and 6 carbon atoms (C_3 - C_6); alkoxy may optionally be substituted with 1 or 2 substituents independently selected from OH, CN, CF₃, CONR10R11,
- 25 fluoro and NR10R11;
- aryl is phenyl, biphenyl or naphthyl; aryl may be optionally substituted with 1, 2 or 3 substituents independently selected from alkyl, alkoxy, methylenedioxy, ethylenedioxy, OH, halo, CN, heteroaryl, -(CH₂)₀₋₃-O-heteroaryl, aryl^b, -O-aryl^b, -(CH₂)₁₋₃-aryl^b, -(CH₂)₁₋₃-heteroaryl, COOR10, -CONR10R11, -(CH₂)₀₋₃-NR10R11, OCF₃ and CF₃;

aryl^b is phenyl, biphenyl or naphthyl, which may be optionally substituted with 1, 2 or 3 substituents independently selected from alkyl, alkoxy, OH, halo, CN, -COOR10, -CONR10R11, CF₃ and NR10R11;

heteroaryl is a 5, 6, 9 or 10 membered mono- or bi-cyclic aromatic ring, containing, where possible, 1, 2, 3 or 4 ring members independently selected from N, NR8, S and O; heteroaryl may be optionally substituted with 1, 2 or 3 substituents independently selected from alkyl, alkoxy, OH, OCF₃, halo, CN, aryl, -(CH₂)₁₋₃-aryl, -(CH₂)₀₋₃-NR10R11, heteroaryl^b, -COOR10, -CONR10R11 and CF₃;

10

heteroaryl^b is a 5, 6, 9 or 10 membered mono- or bi-cyclic aromatic ring, containing, where possible, 1, 2 or 3 ring members independently selected from N, NR8, S and O; wherein heteroaryl^b may be optionally substituted with 1, 2 or 3 substituents independently selected from alkyl, alkoxy, OH, halo, CN, aryl, -(CH₂)₁₋₃-aryl, -COOR10, -CONR10R11, CF₃ and NR10R11;

15

R10 and R11 are independently selected from H, alkyl, aryl^b and heteroaryl^b or R10 and R11 together with the nitrogen atom to which they are attached form a carbon-containing 4-, 5-, 6- or 7-membered heterocylic ring, optionally containing an additional heteroatom selected from N, S and O, which may be saturated or unsaturated with 1 or 2 double bonds and which may be optionally mono- or di-substituted with substituents selected from oxo, alkyl, alkoxy, OH, halo and CF₃.

- 2. A compound of formula (I), or a tautomer, stereoisomer, or a pharmaceutically acceptable salt or solvate thereof,
- for use in the treatment of a disease or condition in which plasma kallikrein activity is implicated, by inhibition of plasma kallikrein,

wherein the compound of formula (I) is as defined in claim 1.

Use of a compound of formula (I), or a tautomer, stereoisomer, or a pharmaceutically
 acceptable salt or solvate thereof, in the manufacture of a medicament for the treatment or prevention of a disease or condition in which plasma kallikrein activity is implicated, by inhibition of plasma kallikrein,

wherein the compound of formula (I) is as defined in claim 1.

4. A compound of formula (I), or a tautomer, stereoisomer, or a pharmaceutically acceptable salt or solvate thereof, for use according to claim 2;

wherein the disease or condition in which plasma kallikrein activity is implicated is selected from impaired visual acuity, diabetic retinopathy, diabetic macular edema, hereditary angioedema, diabetes, pancreatitis, cerebral haemorrhage, nephropathy, cardiomyopathy, neuropathy, inflammatory bowel disease, arthritis, inflammation, septic shock, hypotension, cancer, adult respiratory distress syndrome, disseminated intravascular coagulation, 10 cardiopulmonary bypass surgery, bleeding from post operative surgery and retinal vascular permeability associated with diabetic retinopathy and diabetic macular edema.

5. The use of claim 3, wherein the disease or condition in which plasma kallikrein activity is implicated is selected from impaired visual acuity, diabetic retinopathy, diabetic macular 15 edema, hereditary angioedema, diabetes, pancreatitis, cerebral haemorrhage, nephropathy, cardiomyopathy, neuropathy, inflammatory bowel disease, arthritis, inflammation, septic shock, hypotension, cancer, adult respiratory distress syndrome, disseminated intravascular coagulation, cardiopulmonary bypass surgery, bleeding from post operative surgery and retinal vascular permeability associated with diabetic retinopathy and diabetic macular edema.

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6. The compound of formula (I), or a tautomer, stereoisomer, or a pharmaceutically acceptable salt or solvate thereof, for use according to claim 4;

wherein the disease or condition in which plasma kallikrein activity is implicated is retinal vascular permeability associated with diabetic retinopathy and diabetic macular edema, wherein the compound of formula (I) is as defined in claim 1.

7. The use of claim 5, wherein the disease or condition in which plasma kallikrein activity is implicated is retinal vascular permeability associated with diabetic retinopathy and diabetic macular edema, wherein the compound of formula (I) is as defined in claim 1.

30

8. A compound of formula (I),

wherein

B is phenyl substituted with 1 to 4 substituents selected from alkyl^b, alkoxy, OH, halo, CN, heteroaryl, COOR8, NHCOR8, CONR8R9, OCF₃, and CF₃; or B is selected from benzothiophenyl, benzofuranyl, benzomorpholinyl, and a 5 or 6 membered heterocyclic ring containing one or two heteroatoms selected from N, O and S; wherein said 5 or 6 membered heterocyclic ring may be aromatic or non-aromatic; and wherein said benzothiophenyl, said benzofuranyl, said benzomorpholinyl, or said 5 or 6 membered heterocyclic ring is substituted with 1 to 3 substituents selected from alkyl^b, alkoxy, OH, oxo, halo, CN, heteroaryl, COOR8, NHCOR8, CONR8R9, OCF₃ and CF₃;

W is C and X, Y and Z are independently selected from C, N, O and S, such that the ring containing W, X, Y and Z is a five membered aromatic heterocycle;

R5 and R6 are independently absent or independently selected from H, alkyl, cycloalkyl, -NR8R9, CN, -NR8COR9 and CF₃; wherein at least one of R5 and R6 is present and is not H;

20 R7 is H;

A is selected from aryl and heteroaryl; wherein aryl is substituted with 1, 2 or 3 substituents independently selected from alkyl, alkoxy, methylenedioxy, ethylenedioxy, OH, halo, CN, heteroaryl, -(CH₂)₀₋₃-O-heteroaryl, aryl^b, -O-aryl^b, -(CH₂)₁₋₃-aryl^b, -(CH₂)₁₋₃-heteroaryl, -COOR10, -COOR1

substituents independently selected from alkyl, alkoxy, OH, OCF₃, halo, CN, aryl, -(CH₂)₁₋₃-aryl, -(CH₂)₀₋₃-NR10R11, heteroaryl^b, -COOR10, -CONR10R11 and CF₃;

R8 and R9 are independently selected from H and alkyl;

5

alkyl is a linear saturated hydrocarbon having up to 10 carbon atoms (C_1 - C_{10}) or a branched saturated hydrocarbon of between 3 and 10 carbon atoms (C_3 - C_{10}); alkyl may optionally be substituted with 1 or 2 substituents independently selected from (C_1 - C_6)alkoxy, OH, CN, CF₃, COOR10, CONR10R11, fluoro and NR10R11;

10

alkyl^b is a linear saturated hydrocarbon having up to 6 carbon atoms or a branched saturated hydrocarbon of between 3 and 6 carbon atoms (C_{3-6}); alkyl^b may optionally be substituted with 1 or 2 substituents independently selected from (C_1 - C_6)alkoxy, OH, CN, CF₃, COOR10, CONR10R11 and fluoro;

15

cycloalkyl is a monocyclic saturated hydrocarbon of between 3 and 6 carbon atoms;

alkoxy is a linear O-linked hydrocarbon of between 1 and 6 carbon atoms (C₁-C₆) or a branched O-linked hydrocarbon of between 3 and 6 carbon atoms (C₃-C₆); alkoxy may optionally be substituted with 1 or 2 substituents independently selected from OH, CN, CF₃, CONR10R11, fluoro and NR10R11;

aryl is phenyl, biphenyl or naphthyl; aryl may be optionally substituted with 1, 2 or 3 substituents independently selected from alkyl, alkoxy, methylenedioxy, ethylenedioxy, OH, halo, CN, heteroaryl, -(CH₂)₀₋₃-O-heteroaryl, aryl^b, -O-aryl^b, -(CH₂)₁₋₃-aryl^b, -(CH₂)₁₋₃-heteroaryl, -COOR10, -CONR10R11, -(CH₂)₀₋₃-NR10R11, OCF₃ and CF₃;

aryl^b is phenyl, biphenyl or naphthyl, which may be optionally substituted with 1, 2 or 3 substituents independently selected from alkyl, alkoxy, OH, halo, CN, -COOR10, -CONR10R11, CF₃ and NR10R11;

heteroaryl is a 5, 6, 9 or 10 membered mono- or bi-cyclic aromatic ring, containing, where possible, 1, 2, 3 or 4 ring members independently selected from N, NR8, S and O; heteroaryl may be optionally substituted with 1, 2 or 3 substituents independently selected from alkyl, alkoxy, OH, OCF₃, halo, CN, aryl, -(CH₂)₁₋₃-aryl, -(CH₂)₀₋₃-NR10R11, heteroaryl^b, -COOR10, -CONR10R11 and CF₃;

heteroaryl^b is a 5, 6, 9 or 10 membered mono- or bi-cyclic aromatic ring, containing, where possible, 1, 2 or 3 ring members independently selected from N, NR8, S and O; wherein heteroaryl^b may be optionally substituted with 1, 2 or 3 substituents independently selected from alkyl, alkoxy, OH, halo, CN, aryl, -(CH₂)₁₋₃-aryl, -COOR10, -CONR10R11, CF₃ and NR10R11;

R10 and R11 are independently selected from H, alkyl, aryl^b and heteroaryl^b or R10 and R11 together with the nitrogen atom to which they are attached form a carbon-containing 4-, 5-, 6- or 7-membered heterocylic ring, optionally containing an additional heteroatom selected from N, S and O, which may be saturated or unsaturated with 1 or 2 double bonds and which may be optionally mono- or di-substituted with substituents selected from oxo, alkyl, alkoxy, OH, halo and CF₃;

and a tautomer, stereoisomer, pharmaceutically acceptable salt and solvate thereof;

20

wherein the compound is not selected from:

benzoic acid, 3-[[[1-[(3-chlorophenyl)methyl]-3-methyl-1H-pyrazol-4-yl]carbonyl]amino]methyl]-;

benzoic acid, 4-[[([1-[(3-chlorophenyl)methyl]-3-methyl-1H-pyrazol-4-yl]carbonyl]amino]methyl]-;

2-furancarboxylic acid, 5-[[[1- [(3-chlorophenyl)methyl]-3-methyl-1H-pyrazol-4-yl)carbonyl]amino]methyl]-;

benzoic acid, 5-[[[1- [(3-chlorophenyl)methyl]-3-methyl-1H-pyrazol-4-yl] carbonyl]amino]methyl]-2-methoxy-;

30 3-furancarboxylic acid, 5-[[[[1-[(3-chlorophenyl)methyl]-3-methyl-1H-pyrazol-4-yl]carbonyl]amino]methyl]-2-methyl-; and

benzoic acid, 4-[[[[1-[(3-chlorophenyl)methyl]-3-methyl-1H-pyrazol-4-yl]carbonyl]amino]methyl]-2-methoxy-.

9. A compound according to claim 8, wherein:

B is phenyl substituted with 1 to 4 substituents selected from alkyl^b, alkoxy, OH, halo, CN, heteroaryl, COO(alkyl), NHCOR8, CONR8R9, OCF₃, and CF₃; or

whererin B is selected from benzothiophenyl, benzofuranyl, benzomorpholinyl and a 5 or 6 membered heterocyclic ring containing one or two heteroatoms selected from N, O and S; wherein said 5 or 6 membered heterocyclic ring may be aromatic or non-aromatic; and wherein said benzothiophenyl, said benzofuranyl, said benzomorpholinyl or said 5 or 6 membered heterocyclic ring is substituted with 1 to 3 substituents selected from alkyl^b, alkoxy, OH, oxo, halo, CN, heteroaryl, COO(alkyl), NHCOR8, CONR8R9, OCF₃ and CF₃; or a tautomer, stereoisomer, a pharmaceutically acceptable salt or solvate thereof.

15 10. A pharmaceutical composition according to claim 1;

wherein B is selected from phenyl substituted with 1 to 4 substituents selected from alkyl^b, alkoxy, OH, halo, CN, heteroaryl, COOR8, NHCOR8, CONR8R9, OCF₃, and CF₃; or B is selected from benzothiophenyl, benzofuranyl, and a 5 or 6 membered heterocyclic ring containing one or two heteroatoms selected from N, O and S; wherein said 5 or 6 membered heterocyclic ring may be aromatic or non-aromatic; and wherein said benzothiophenyl, said benzofuranyl or said 5 or 6 membered heterocyclic ring is substituted with 1 to 3 substituents selected from alkyl^b, alkoxy, OH, oxo, halo, CN, heteroaryl, COOR8, NHCOR8, CONR8R9, OCF₃ and CF₃; wherein alkyl^b, alkoxy, R8 and R9 are as defined in claim 1, or a tautomer, stereoisomer, a pharmaceutically acceptable salt or solvate thereof.

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11. A pharmaceutical composition according to claim 1 or 10;

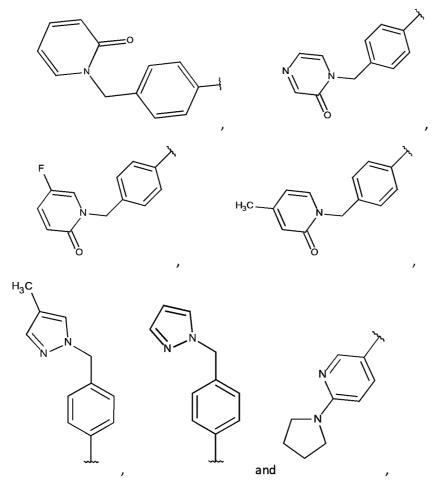
wherein B is selected from phenyl, thiophenyl, benzothiophenyl and pyridyl, each substituted with 1 to 3 substituents selected from alkyl^b, alkoxy, halo, CN, COOR8, CONR8R9, OCF₃ and CF₃; wherein alkyl^b, alkoxy, R8 and R9 are as defined in claim 1;

- 30 or a tautomer, stereoisomer, a pharmaceutically acceptable salt or solvate thereof.
 - 12. A pharmaceutical composition according to any one of claims 1, 10 and 11;

wherein B is selected from phenyl and pyridyl, each substituted with 1 to 3 substituents selected from alkyl^b, alkoxy, CF₃ and halo; wherein alkyl^b and alkoxy are as defined in claim 1, or a tautomer, stereoisomer, a pharmaceutically acceptable salt or solvate thereof.

- 5 13. A pharmaceutical composition according to claim 11; wherein B is pyridyl substituted with 1 to 3 substituents selected from alkyl^b, alkoxy, CF₃ and halo; wherein alkyl^b and alkoxy are as defined in claim 1, or a tautomer, stereoisomer, a pharmaceutically acceptable salt or solvate thereof.
- 10 14. A pharmaceutical composition according to any one of claims 1 and 10-13; wherein W is C and X, Y and Z are independently selected from C and N, such that the ring containing W, X, Y and Z is a five membered aromatic heterocycle or a tautomer, stereoisomer, a pharmaceutically acceptable salt or solvate thereof.
- 15 15. A pharmaceutical composition according to any one of claims 1 and 10-14; wherein W is C, X is N and Y and Z are selected from C and N, or a tautomer, stereoisomer, a pharmaceutically acceptable salt or solvate thereof.
- A pharmaceutical composition according to any one of claims 1 and 10-15;
 wherein R5 and R6 are independently absent or independently selected from H,
 CH₂OCH₃, cycloalkyl, -NR8R9, -NR8COR9, CN and CF₃; wherein cycloalkyl, R8 and R9 are as defined in claim 1; and wherein at least one of R5 and R6 is present and is not H,
 or a tautomer, stereoisomer, a pharmaceutically acceptable salt or solvate thereof.
- 25 17. A pharmaceutical composition according to any one of claims 1 and 10-16; wherein R5 is CH₂OCH₃, or a tautomer, stereoisomer, a pharmaceutically acceptable salt or solvate thereof.
- 18. A pharmaceutical composition according to any one of claims 1 and 10-17;
 30 wherein A is phenyl substituted with -(CH₂)₁₋₃-heteroaryl or -(CH₂)₁₋₃-NR10R11; wherein heteroaryl, R10 and R11 are as defined in claim 1,
 or a tautomer, stereoisomer, a pharmaceutically acceptable salt or solvate thereof.

- 19. A pharmaceutical composition according to claim 18, wherein A is phenyl substituted with -(CH₂)₁₋₃-heteroaryl or -(CH₂)₁₋₃-NR10R11 and 1 or 2 additional substituents independently selected from alkyl, halo and CF₃; wherein alkyl, heteroaryl, R10 and R11 are as defined in claim
 5 1,
 - or a tautomer, stereoisomer, a pharmaceutically acceptable salt or solvate thereof.
- 20. A pharmaceutical composition according to any one of claims 1 and 10-17; wherein A is pyridyl substituted with heteroaryl^b or -NR10R11; wherein heteroaryl^b,
 10 R10 and R11 are as defined in claim 1, or a tautomer, stereoisomer, a pharmaceutically acceptable salt or solvate thereof.
- 21. A pharmaceutical composition according to claim 20, wherein A is pyridyl substituted with heteroaryl^b or -NR10R11 and 1 or 2 additional substituents independently selected from
 alkyl, halo and CF₃; wherein alkyl, heteroaryl^b, R10 and R11 are as defined in claim 1, or a tautomer, stereoisomer, a pharmaceutically acceptable salt or solvate thereof.
- A pharmaceutical composition according to any one of claims 18-21; wherein R10 and R11 together with the nitrogen atom to which they are attached form
 a 5- or 6-membered carbon containing heterocylic ring, optionally containing an addition N atom, which may be saturated or unsaturated with 1 or 2 double bonds, and optionally monoor di-substituted with substituents selected from oxo, methyl, Cl and F, or a tautomer, stereoisomer, a pharmaceutically acceptable salt or solvate thereof.
- 25 23. A pharmaceutical composition according to any one of claims 1 and 10-17; wherein A is selected from:



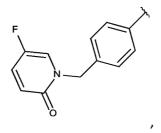
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24. A pharmaceutical composition according to claim 23; wherein A is selected from:

or a tautomer, stereoisomer, a pharmaceutically acceptable salt or solvate thereof.

10

25. A pharmaceutical composition according to claim 23; wherein A is selected from:



26. A pharmaceutical composition according to claim 1;

5 wherein the compound is selected from:

3-Amino-1-[4-(2-oxo-2H-pyridin-1-ylmethyl)-benzyl]-1H-pyrazole-4-carboxylic acid 2fluoro-3-methoxy-benzylamide; N-[(2-fluoro-3-methoxyphenyl)methyl]-1-({4-[(4-methylpyrazol-1yl)methyl]phenyl}methyl)-3-(trifluoromethyl)pyrazole-4-carboxamide; N-[(2-fluoro-5-methoxyphenyl)methyl]-1-({4-[(4-methylpyrazol-1yl)methyl]phenyl}methyl)-3-(trifluoromethyl)pyrazole-4-carboxamide; N-{[2-fluoro-6-(trifluoromethyl)phenyl]methyl}-1-({4-[(4-methylpyrazol-1yl)methyl]phenyl}methyl)-3-(trifluoromethyl)pyrazole-4-carboxamide; N-[(4-chloro-2,6-difluorophenyl)methyl]-1-({4-[(4-methylpyrazol-1yl)methyl]phenyl}methyl)-3-(trifluoromethyl)pyrazole-4-carboxamide; N-{[3-chloro-2-fluoro-6-(trifluoromethyl)phenyl]methyl}-1-({4-[(4-methylpyrazol-1yl)methyl]phenyl}methyl)-3-(trifluoromethyl)pyrazole-4-carboxamide; N-[(2-fluoro-4-methylphenyl)methyl]-1-({4-[(4-methylpyrazol-1yl)methyl]phenyl}methyl)-3-(trifluoromethyl)pyrazole-4-carboxamide; N-[(3-fluoro-4-methoxypyridin-2-yl)methyl]-3-(methoxymethyl)-1-({4-[(2-oxopyridin-1yl)methyl]phenyl}methyl)pyrazole-4-carboxamide;

N-[(5-chloro-1-benzothiophen-3-yl)methyl]-3-(methoxymethyl)-1-({4-[(2-oxopyridin-1-

yl)methyl]phenyl}methyl)pyrazole-4-carboxamide;

N-{[2-fluoro-6-(trifluoromethyl)phenyl]methyl}-1-({4-[(2-oxopyridin-1-

yl)methyl]phenyl}methyl)-3-(trifluoromethyl)pyrazole-4-carboxamide;

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3-cyclopropyl-N-[(2-fluoro-3-methoxyphenyl)methyl]-1-({4-[(2-oxopyridin-1-
yl)methyl]phenyl}methyl)pyrazole-4-carboxamide;
N-[(2-fluoro-3-methoxyphenyl)methyl]-3-(methoxymethyl)-1-({4-[(2-oxopyridin-1-
yl)methyl]phenyl}methyl)pyrazole-4-carboxamide;
N-[(2-fluoro-3,6-dimethoxyphenyl)methyl]-3-(methoxymethyl)-1-({4-[(2-oxopyridin-1-
yl)methyl]phenyl}methyl)pyrazole-4-carboxamide;
3-(dimethylamino)-N-[(2-fluoro-3-methoxyphenyl)methyl]-1-({4-[(2-oxopyridin-1-
yl)methyl]phenyl}methyl)pyrazole-4-carboxamide;
N-[(2-fluoro-5-methoxyphenyl)methyl]-3-(methoxymethyl)-1-(\{4-[(2-oxopyridin-1-methoxymethyl)-1-((2-oxopyridin-1-methoxymethyl)-1-((2-oxopyridin-1-methoxymethyl)-1-((2-oxopyridin-1-methoxymethyl)-1-((2-oxopyridin-1-methoxymethyl)-1-((2-oxopyridin-1-methoxymethyl)-1-((2-oxopyridin-1-methoxymethyl)-1-((2-oxopyridin-1-methoxymethyl)-1-((2-oxopyridin-1-methoxymethyl)-1-((2-oxopyridin-1-methoxymethyl)-1-((2-oxopyridin-1-methoxymethyl)-1-((2-oxopyridin-1-methoxymethyl)-1-((2-oxopyridin-1-methoxymethyl)-1-((2-oxopyridin-1-methoxymethyl)-1-((2-oxopyridin-1-methoxymethyl)-1-((2-oxopyridin-1-methoxymethyl)-1-((2-oxopyridin-1-methoxymethyl)-1-((2-oxopyridin-1-methoxymethyl)-1-((2-oxopyridin-1-methoxymethyl)-1-((2-oxopyridin-1-methoxymethyl)-1-((2-oxopyridin-1-methoxymethyl)-1-((2-oxopyridin-1-methoxymethyl)-1-((2-oxopyridin-1-methoxymethyl)-1-((2-oxopyridin-1-methoxymethyl)-1-((2-oxopyridin-1-methoxymethyl)-1-((2-oxopyridin-1-methoxymethyl)-1-((2-oxopyridin-1-methoxymethyl)-1-((2-oxopyridin-1-methoxymethyl)-1-((2-oxopyridin-1-methoxymethyl)-1-((2-oxopyridin-1-methoxymethyl)-1-((2-oxopyridin-1-methoxymethyl)-1-((2-oxopyridin-1-methoxymethyl)-1-((2-oxopyridin-1-methoxymethyl)-1-((2-oxopyridin-1-methoxymethyl)-1-((2-oxopyridin-1-methoxymethyl)-1-((2-oxopyridin-1-methoxymethyl)-1-((2-oxopyridin-1-methoxymethyl)-1-((2-oxopyridin-1-methoxymethyl)-1-((2-oxopyridin-1-methoxymethyl)-1-((2-oxopyridin-1-methoxymethyl)-1-((2-oxopyridin-1-methoxymethyl)-1-((2-oxopyridin-1-methoxymethyl)-1-((2-oxopyridin-1-methoxymethyl)-1-((2-oxopyridin-1-methoxymethyl)-1-((2-oxopyridin-1-methoxymethyl)-1-((2-oxopyridin-1-methoxymethyl)-1-((2-oxopyridin-1-methoxymethyl)-1-((2-oxopyridin-1-methoxymethyl)-1-((2-oxopyridin-1-methoxymethyl)-1-((2-oxopyridin-1-methoxymethyl)-1-((2-oxopyridin-1-methoxymethyl)-1-((2-oxopyridin-1-methoxymethyl)-1-((2-oxopyridin-1-methoxymethyl)-1-((2-oxopyridin-1-methoxymethyl)-1-((2-oxopyridin-1-methoxymethyl)-1-((2-oxopyridin-1-methoxymethyl)-1-((2-oxopyridin-1-methoxymethyl)-1-((2-oxopyridin-1-methoxymethyl)-1-((2-oxopyri
yl)methyl]phenyl}methyl)pyrazole-4-carboxamide;
N-[(2-fluoro-4-methylphenyl)methyl]-3-(methoxymethyl)-1-({4-[(2-oxopyridin-1-
yl)methyl]phenyl}methyl)pyrazole-4-carboxamide;
N-[(2,6-difluoro-3-methoxyphenyl)methyl]-3-(methoxymethyl)-1-({4-[(2-oxopyridin-1-
yl)methyl]phenyl}methyl)pyrazole-4-carboxamide;
N-{[2-(difluoromethyl)phenyl]methyl}-3-(methoxymethyl)-1-({4-[(2-oxopyridin-1-
yl)methyl]phenyl}methyl)pyrazole-4-carboxamide;
N-{[2-(difluoromethyl)-3-methoxyphenyl]methyl}-3-(methoxymethyl)-1-({4-[(2-
oxopyridin-1-yl)methyl]phenyl}methyl)pyrazole-4-carboxamide;
3-amino-N-{[2-fluoro-6-(trifluoromethyl)phenyl]methyl}-1-({4-[(2-oxopyridin-1-
yl)methyl]phenyl}methyl)pyrazole-4-carboxamide;
3-acetamido-N-[(2-fluoro-3-methoxyphenyl)methyl]-1-({4-[(2-oxopyridin-1-
yl)methyl]phenyl}methyl)pyrazole-4-carboxamide;
N-[(3-chloro-2,6-difluorophenyl)methyl]-3-(methoxymethyl)-1-({4-[(2-oxopyridin-1-
yl)methyl]phenyl}methyl)pyrazole-4-carboxamide;
N-[(5-chloro-2-cyanophenyl)methyl]-3-(methoxymethyl)-1-({4-[(2-oxopyridin-1-
yl)methyl]phenyl}methyl)pyrazole-4-carboxamide;
N-[(6-cyano-2-fluoro-3-methoxyphenyl)methyl]-3-(methoxymethyl)-1-({4-[(2-
oxopyridin-1-yl)methyl]phenyl}methyl)pyrazole-4-carboxamide;
N-{[5-methoxy-2-(trifluoromethyl)phenyl]methyl}-3-(methoxymethyl)-1-({4-[(2-
oxopyridin-1-yl)methyl]phenyl}methyl)pyrazole-4-carboxamide;
N-{[2-(difluoromethyl)-6-fluorophenyl]methyl}-3-(methoxymethyl)-1-({4-[(2-
oxopyridin-1-yl)methyl]phenyl}methyl)pyrazole-4-carboxamide;
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N-{[2-(difluoromethyl)-5-methoxyphenyl]methyl}-3-(methoxymethyl)-1-({4-[(2-
oxopyridin-1-yl)methyl]phenyl}methyl)pyrazole-4-carboxamide;
N-{[2-(difluoromethyl)-6-fluoro-3-methoxyphenyl]methyl}-3-(methoxymethyl)-1-({4-
[(2-oxopyridin-1-yl)methyl]phenyl}methyl)pyrazole-4-carboxamide;
N-[(2-carbamoyl-6-fluorophenyl)methyl]-3-(methoxymethyl)-1-({4-[(2-oxopyridin-1-
yl)methyl]phenyl}methyl)pyrazole-4-carboxamide;
N-[(2-carbamoyl-5-methoxyphenyl)methyl]-3-(methoxymethyl)-1-({4-[(2-oxopyridin-1-
yl)methyl]phenyl}methyl)pyrazole-4-carboxamide;
N-{[3-(difluoromethoxy)-2-fluorophenyl]methyl}-3-(methoxymethyl)-1-({4-[(2-
oxopyridin-1-yl)methyl]phenyl}methyl)pyrazole-4-carboxamide;
N-{[2-(difluoromethoxy)-6-fluorophenyl]methyl}-3-(methoxymethyl)-1-({4-[(2-
oxopyridin-1-yl)methyl]phenyl}methyl)pyrazole-4-carboxamide;
N-[(2,5-difluoro-3-methoxyphenyl)methyl]-3-(methoxymethyl)-1-({4-[(2-oxopyridin-1-
yl)methyl]phenyl}methyl)pyrazole-4-carboxamide;
N-[(2-fluoro-6-methylphenyl)methyl]-3-(methoxymethyl)-1-({4-[(2-oxopyridin-1-
yl)methyl]phenyl}methyl)pyrazole-4-carboxamide;
N-[(6-chloro-2-fluoro-3-methoxyphenyl)methyl]-3-(methoxymethyl)-1-({4-[(2-
oxopyridin-1-yl)methyl]phenyl}methyl)pyrazole-4-carboxamide;
3-amino-N-[(2-fluoro-3-hydroxyphenyl)methyl]-1-({4-[(2-oxopyridin-1-
yl)methyl]phenyl}methyl)pyrazole-4-carboxamide;
N-[(3-ethyl-2-fluorophenyl)methyl]-3-(methoxymethyl)-1-({4-[(2-oxopyridin-1-
yl)methyl]phenyl}methyl)pyrazole-4-carboxamide;
3-(methoxymethyl)-N-[(3-methoxyphenyl)methyl]-1-({4-[(2-oxopyridin-1-
yl)methyl]phenyl}methyl)pyrazole-4-carboxamide;
N-[(2,6-difluoro-3-methoxyphenyl)methyl]-3-(methoxymethyl)-1-({4-[(4-methyl-2-
oxopyridin-1-yl)methyl]phenyl}methyl)pyrazole-4-carboxamide;
N-[(2,6-difluoro-3-methoxyphenyl)methyl]-1-({4-[(5-fluoro-2-oxopyridin-1-
yl)methyl]phenyl}methyl)-3-(methoxymethyl)pyrazole-4-carboxamide;
N-[(2-fluoro-3-methoxyphenyl)methyl]-2-methyl-1-({4-[(2-oxopyridin-1-
yl)methyl]phenyl}methyl)imidazole-4-carboxamide;
N-[(2-fluoro-3-methoxyphenyl)methyl]-1-({4-[(2-oxopyridin-1-
yl)methyl]phenyl}methyl)-2-(trifluoromethyl)imidazole-4-carboxamide;
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3-amino-N-[(7-chloro-4-methyl-2,3-dihydro-1,4-benzoxazin-2-yl)methyl]-1-({4-[(2-oxopyridin-1-yl)methyl]phenyl}methyl)pyrazole-4-carboxamide;
3-amino-N-[(7-chloro-3,4-dihydro-2H-1,4-benzoxazin-2-yl)methyl]-1-({4-[(2-oxopyridin-1-yl)methyl]phenyl}methyl)pyrazole-4-carboxamide
or a pharmaceutically acceptable salt and solvate thereof.

27. The pharmaceutical composition according to claim 26; wherein the compound is:

or a pharmaceutically acceptable salt or solvate thereof.

28. The compound for use of any one of claims 2, 4 and 6;
wherein B is selected from phenyl substituted with 1 to 4 substituents selected from
10 alkyl^b, alkoxy, OH, halo, CN, heteroaryl, COOR8, NHCOR8, CONR8R9, OCF₃, and CF₃; or B is
selected from benzothiophenyl, benzofuranyl, and a 5 or 6 membered heterocyclic ring
containing one or two heteroatoms selected from N, O and S; wherein said 5 or 6 membered
heterocyclic ring may be aromatic or non-aromatic; and wherein said benzothiophenyl, said
benzofuranyl or said 5 or 6 membered heterocyclic ring is substituted with 1 to 3 substituents
15 selected from alkyl^b, alkoxy, OH, oxo, halo, CN, heteroaryl, COOR8, NHCOR8, CONR8R9, OCF₃
and CF₃; wherein alkyl^b, alkoxy, R8 and R9 are as defined in claim 1,

29. The compound for use of any one of claims 2, 4, 6, and 28;
wherein B is selected from phenyl, thiophenyl, benzothiophenyl and pyridyl, each
substituted with 1 to 3 substituents selected from alkyl^b, alkoxy, halo, CN, COOR8, CONR8R9,

or a tautomer, stereoisomer, a pharmaceutically acceptable salt or solvate thereof.

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OCF₃ and CF₃; wherein alkyl^b, alkoxy, R8 and R9 are as defined in claim 1; or a tautomer, stereoisomer, a pharmaceutically acceptable salt or solvate thereof.

- 30. The compound for use of any one of claims 2, 4, 6, 28 and 29;
- wherein B is selected from phenyl and pyridyl, each substituted with 1 to 3 substituents selected from alkyl^b, alkoxy, CF₃ and halo; wherein alkyl^b and alkoxy are as defined in claim 1, or a tautomer, stereoisomer, a pharmaceutically acceptable salt or solvate thereof.
 - 31. The compound for use of claim 30;
- wherein B is pyridyl substituted with 1 to 3 substituents selected from alkyl^b, alkoxy, CF₃ and halo; wherein alkyl^b and alkoxy are as defined in claim 1, or a tautomer, stereoisomer, a pharmaceutically acceptable salt or solvate thereof.
- 32. The compound for use of any one of claims 2, 4, 6, and 28-31;
 wherein W is C and X, Y and Z are independently selected from C and N, such that the ring containing W, X, Y and Z is a five membered aromatic heterocycle or a tautomer, stereoisomer, a pharmaceutically acceptable salt or solvate thereof.
- 33. The compound for use of any one of claims 2, 4, 6, and 28-32;
 wherein W is C, X is N and Y and Z are selected from C and N,
 or a tautomer, stereoisomer, a pharmaceutically acceptable salt or solvate thereof.
- 34. The compound for use of any one of claims 2, 4, 6, and 28-33; wherein R5 and R6 are independently absent or independently selected from H,
 25 CH₂OCH₃, cycloalkyl, -NR8R9, -NR8COR9, CN and CF₃; wherein cycloalkyl, R8 and R9 are as defined in claim 1; and wherein at least one of R5 and R6 is present and is not H, or a tautomer, stereoisomer, a pharmaceutically acceptable salt or solvate thereof.
- 35. The compound for use of any one of claims 2, 4, 6, and 28-34;
 30 wherein R5 is CH₂OCH₃,
 or a tautomer, stereoisomer, a pharmaceutically acceptable salt or solvate thereof.

36. The compound for use of any one of claims 2, 4, 6, and 28-35; wherein A is phenyl substituted with -(CH₂)₁₋₃-heteroaryl or -(CH₂)₁₋₃-NR10R11; wherein heteroaryl, R10 and R11 are as defined in claim 1, or a tautomer, stereoisomer, a pharmaceutically acceptable salt or solvate thereof.

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37. The compound for use of claim 36, wherein A is phenyl substituted with $-(CH_2)_{1-3}$ -heteroaryl or $-(CH_2)_{1-3}$ -NR10R11 and 1 or 2 additional substituents independently selected from alkyl, halo and CF₃; wherein alkyl, heteroaryl, R10 and R11 are as defined in claim 1, or a tautomer, stereoisomer, a pharmaceutically acceptable salt or solvate thereof.

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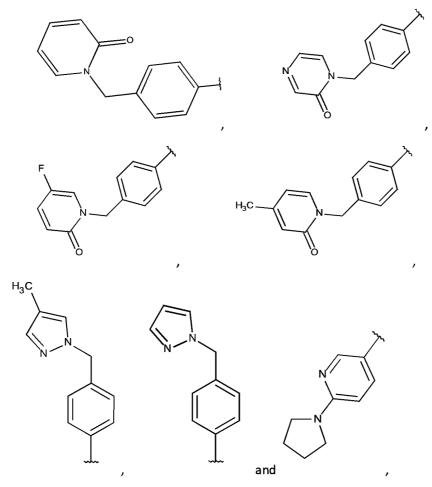
The compound for use of any one of claims 2, 4, 6, and 28-35;
 wherein A is pyridyl substituted with heteroaryl^b or -NR10R11; wherein heteroaryl^b,
 R10 and R11 are as defined in claim 1,
 or a tautomer, stereoisomer, a pharmaceutically acceptable salt or solvate thereof.

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39. The compound for use of claim 38, wherein A is pyridyl substituted with heteroaryl b or -NR10R11 and 1 or 2 additional substituents independently selected from alkyl, halo and CF $_3$; wherein alkyl, heteroaryl b , R10 and R11 are as defined in claim 1, or a tautomer, stereoisomer, a pharmaceutically acceptable salt or solvate thereof

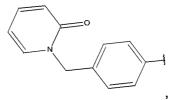
20

- 40. The compound for use of any one of claims 36-39; wherein R10 and R11 together with the nitrogen atom to which they are attached form a 5- or 6-membered carbon containing heterocylic ring, optionally containing an addition N atom, which may be saturated or unsaturated with 1 or 2 double bonds, and optionally mono-or di-substituted with substituents selected from oxo, methyl, Cl and F, or a tautomer, stereoisomer, a pharmaceutically acceptable salt or solvate thereof.
 - 41. The compound for use of any one of claims 2, 4, 6, and 28-35; wherein A is selected from:



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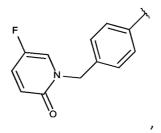
42. The compound for use of claim 41; wherein A is selected from:



or a tautomer, stereoisomer, a pharmaceutically acceptable salt or solvate thereof.

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43. The compound for use of claim 41; wherein A is selected from:



44. The compound for use of any one of claims 2, 4 and 6;

5 wherein the compound is selected from:

3-Amino-1-[4-(2-oxo-2H-pyridin-1-ylmethyl)-benzyl]-1H-pyrazole-4-carboxylic acid 2-fluoro-3-methoxy-benzylamide;

N-[(2-fluoro-3-methoxyphenyl)methyl]-1-({4-[(4-methylpyrazol-1-

yl)methyl]phenyl}methyl)-3-(trifluoromethyl)pyrazole-4-carboxamide;

N-[(2-fluoro-5-methoxyphenyl)methyl]-1-({4-[(4-methylpyrazol-1-

yl)methyl]phenyl}methyl)-3-(trifluoromethyl)pyrazole-4-carboxamide;

N-{[2-fluoro-6-(trifluoromethyl)phenyl]methyl}-1-({4-[(4-methylpyrazol-1-

yl)methyl]phenyl}methyl)-3-(trifluoromethyl)pyrazole-4-carboxamide;

N-[(4-chloro-2,6-difluorophenyl)methyl]-1-({4-[(4-methylpyrazol-1-

yl)methyl]phenyl}methyl)-3-(trifluoromethyl)pyrazole-4-carboxamide;

N-{[3-chloro-2-fluoro-6-(trifluoromethyl)phenyl]methyl}-1-({4-[(4-methylpyrazol-1-

yl)methyl]phenyl}methyl)-3-(trifluoromethyl)pyrazole-4-carboxamide;

N-[(2-fluoro-4-methylphenyl)methyl]-1-({4-[(4-methylpyrazol-1-

yl)methyl]phenyl}methyl)-3-(trifluoromethyl)pyrazole-4-carboxamide;

N-[(3-fluoro-4-methoxypyridin-2-yl)methyl]-3-(methoxymethyl)-1-({4-[(2-oxopyridin-1-

yl)methyl]phenyl}methyl)pyrazole-4-carboxamide;

N-[(5-chloro-1-benzothiophen-3-yl)methyl]-3-(methoxymethyl)-1-({4-[(2-oxopyridin-1-

yl)methyl]phenyl}methyl)pyrazole-4-carboxamide;

N-{[2-fluoro-6-(trifluoromethyl)phenyl]methyl}-1-({4-[(2-oxopyridin-1-

yl)methyl]phenyl}methyl)-3-(trifluoromethyl)pyrazole-4-carboxamide;

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3-cyclopropyl-N-[(2-fluoro-3-methoxyphenyl)methyl]-1-({4-[(2-oxopyridin-1-
yl)methyl]phenyl}methyl)pyrazole-4-carboxamide;
N-[(2-fluoro-3-methoxyphenyl)methyl]-3-(methoxymethyl)-1-({4-[(2-oxopyridin-1-
yl)methyl]phenyl}methyl)pyrazole-4-carboxamide;
N-[(2-fluoro-3,6-dimethoxyphenyl)methyl]-3-(methoxymethyl)-1-({4-[(2-oxopyridin-1-
yl)methyl]phenyl}methyl)pyrazole-4-carboxamide;
3-(dimethylamino)-N-[(2-fluoro-3-methoxyphenyl)methyl]-1-({4-[(2-oxopyridin-1-
yl)methyl]phenyl}methyl)pyrazole-4-carboxamide;
N-[(2-fluoro-5-methoxyphenyl)methyl]-3-(methoxymethyl)-1-({4-[(2-oxopyridin-1-
yl)methyl]phenyl}methyl)pyrazole-4-carboxamide;
N-[(2-fluoro-4-methylphenyl)methyl]-3-(methoxymethyl)-1-({4-[(2-oxopyridin-1-
yl)methyl]phenyl}methyl)pyrazole-4-carboxamide;
N-[(2,6-difluoro-3-methoxyphenyl)methyl]-3-(methoxymethyl)-1-({4-[(2-oxopyridin-1-
yl)methyl]phenyl}methyl)pyrazole-4-carboxamide;
N-{[2-(difluoromethyl)phenyl]methyl}-3-(methoxymethyl)-1-({4-[(2-oxopyridin-1-
yl)methyl]phenyl}methyl)pyrazole-4-carboxamide;
N-{[2-(difluoromethyl)-3-methoxyphenyl]methyl}-3-(methoxymethyl)-1-({4-[(2-
oxopyridin-1-yl)methyl]phenyl}methyl)pyrazole-4-carboxamide;
3-amino-N-{[2-fluoro-6-(trifluoromethyl)phenyl]methyl}-1-({4-[(2-oxopyridin-1-
yl)methyl]phenyl}methyl)pyrazole-4-carboxamide;
3-acetamido-N-[(2-fluoro-3-methoxyphenyl)methyl]-1-({4-[(2-oxopyridin-1-
yl)methyl]phenyl}methyl)pyrazole-4-carboxamide;
N-[(3-chloro-2,6-difluorophenyl)methyl]-3-(methoxymethyl)-1-({4-[(2-oxopyridin-1-
yl)methyl]phenyl}methyl)pyrazole-4-carboxamide;
N-[(5-chloro-2-cyanophenyl)methyl]-3-(methoxymethyl)-1-({4-[(2-oxopyridin-1-
yl)methyl]phenyl}methyl)pyrazole-4-carboxamide;
N-[(6-cyano-2-fluoro-3-methoxyphenyl)methyl]-3-(methoxymethyl)-1-({4-[(2-
oxopyridin-1-yl)methyl]phenyl}methyl)pyrazole-4-carboxamide;
N-{[5-methoxy-2-(trifluoromethyl)phenyl]methyl}-3-(methoxymethyl)-1-({4-[(2-
oxopyridin-1-yl)methyl]phenyl}methyl)pyrazole-4-carboxamide;
N-{[2-(difluoromethyl)-6-fluorophenyl]methyl}-3-(methoxymethyl)-1-({4-[(2-
oxopyridin-1-yl)methyl]phenyl}methyl)pyrazole-4-carboxamide;
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N-{[2-(difluoromethyl)-5-methoxyphenyl]methyl}-3-(methoxymethyl)-1-({4-[(2-
oxopyridin-1-yl)methyl]phenyl}methyl)pyrazole-4-carboxamide;
N-{[2-(difluoromethyl)-6-fluoro-3-methoxyphenyl]methyl}-3-(methoxymethyl)-1-({4-
[(2-oxopyridin-1-yl)methyl]phenyl}methyl)pyrazole-4-carboxamide;
N-[(2-carbamoyl-6-fluorophenyl)methyl]-3-(methoxymethyl)-1-({4-[(2-oxopyridin-1-
yl)methyl]phenyl}methyl)pyrazole-4-carboxamide;
N-[(2-carbamoyl-5-methoxyphenyl)methyl]-3-(methoxymethyl)-1-({4-[(2-oxopyridin-1-
yl)methyl]phenyl}methyl)pyrazole-4-carboxamide;
N-{[3-(difluoromethoxy)-2-fluorophenyl]methyl}-3-(methoxymethyl)-1-({4-[(2-
oxopyridin-1-yl)methyl]phenyl}methyl)pyrazole-4-carboxamide;
N-{[2-(difluoromethoxy)-6-fluorophenyl]methyl}-3-(methoxymethyl)-1-({4-[(2-
oxopyridin-1-yl)methyl]phenyl}methyl)pyrazole-4-carboxamide;
N-[(2,5-difluoro-3-methoxyphenyl)methyl]-3-(methoxymethyl)-1-({4-[(2-oxopyridin-1-
yl)methyl]phenyl}methyl)pyrazole-4-carboxamide;
N-[(2-fluoro-6-methylphenyl)methyl]-3-(methoxymethyl)-1-({4-[(2-oxopyridin-1-
yl)methyl]phenyl}methyl)pyrazole-4-carboxamide;
N-[(6-chloro-2-fluoro-3-methoxyphenyl)methyl]-3-(methoxymethyl)-1-({4-[(2-
oxopyridin-1-yl)methyl]phenyl}methyl)pyrazole-4-carboxamide;
3-amino-N-[(2-fluoro-3-hydroxyphenyl)methyl]-1-({4-[(2-oxopyridin-1-
yl)methyl]phenyl}methyl)pyrazole-4-carboxamide;
N-[(3-ethyl-2-fluorophenyl)methyl]-3-(methoxymethyl)-1-({4-[(2-oxopyridin-1-
yl)methyl]phenyl}methyl)pyrazole-4-carboxamide;
3-(methoxymethyl)-N-[(3-methoxyphenyl)methyl]-1-({4-[(2-oxopyridin-1-
yl)methyl]phenyl}methyl)pyrazole-4-carboxamide;
N-[(2,6-difluoro-3-methoxyphenyl)methyl]-3-(methoxymethyl)-1-({4-[(4-methyl-2-
oxopyridin-1-yl)methyl]phenyl}methyl)pyrazole-4-carboxamide;
N-[(2,6-difluoro-3-methoxyphenyl)methyl]-1-({4-[(5-fluoro-2-oxopyridin-1-
yl)methyl]phenyl}methyl)-3-(methoxymethyl)pyrazole-4-carboxamide;
N-[(2-fluoro-3-methoxyphenyl)methyl]-2-methyl-1-({4-[(2-oxopyridin-1-
yl)methyl]phenyl}methyl)imidazole-4-carboxamide;
N-[(2-fluoro-3-methoxyphenyl)methyl]-1-({4-[(2-oxopyridin-1-
yl)methyl]phenyl}methyl)-2-(trifluoromethyl)imidazole-4-carboxamide;
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3-amino-N-[(7-chloro-4-methyl-2,3-dihydro-1,4-benzoxazin-2-yl)methyl]-1-({4-[(2-oxopyridin-1-yl)methyl]phenyl}methyl)pyrazole-4-carboxamide;
3-amino-N-[(7-chloro-3,4-dihydro-2H-1,4-benzoxazin-2-yl)methyl]-1-({4-[(2-oxopyridin-1-yl)methyl]phenyl}methyl)pyrazole-4-carboxamide
or a pharmaceutically acceptable salt and solvate thereof.

45. The compound for use according to claim 44; wherein the compound is:

or a pharmaceutically acceptable salt or solvate thereof.

46. The use of any one of claims 3, 5, and 7;

wherein B is selected from phenyl substituted with 1 to 4 substituents selected from alkyl^b, alkoxy, OH, halo, CN, heteroaryl, COOR8, NHCOR8, CONR8R9, OCF₃, and CF₃; or B is selected from benzothiophenyl, benzofuranyl, and a 5 or 6 membered heterocyclic ring containing one or two heteroatoms selected from N, O and S; wherein said 5 or 6 membered heterocyclic ring may be aromatic or non-aromatic; and wherein said benzothiophenyl, said benzofuranyl or said 5 or 6 membered heterocyclic ring is substituted with 1 to 3 substituents selected from alkyl^b, alkoxy, OH, oxo, halo, CN, heteroaryl, COOR8, NHCOR8, CONR8R9, OCF₃ and CF₃; wherein alkyl^b, alkoxy, R8 and R9 are as defined in claim 1, or a tautomer, stereoisomer, a pharmaceutically acceptable salt or solvate thereof.

47. The use of any one of claims 3, 5, 7, and 46;

wherein B is selected from phenyl, thiophenyl, benzothiophenyl and pyridyl, each substituted with 1 to 3 substituents selected from alkyl^b, alkoxy, halo, CN, COOR8, CONR8R9,

OCF₃ and CF₃; wherein alkyl^b, alkoxy, R8 and R9 are as defined in claim 1; or a tautomer, stereoisomer, a pharmaceutically acceptable salt or solvate thereof.

- 48. The use of any one of claims 3, 5, 7, 46 and 47;
- wherein B is selected from phenyl and pyridyl, each substituted with 1 to 3 substituents selected from alkyl^b, alkoxy, CF₃ and halo; wherein alkyl^b and alkoxy are as defined in claim 1, or a tautomer, stereoisomer, a pharmaceutically acceptable salt or solvate thereof.
 - 49. The use of claim 48;
- wherein B is pyridyl substituted with 1 to 3 substituents selected from alkyl^b, alkoxy, CF₃ and halo; wherein alkyl^b and alkoxy are as defined in claim 1, or a tautomer, stereoisomer, a pharmaceutically acceptable salt or solvate thereof.
 - 50. The use of any one of claims 3, 5, 7, and 46-49;
- wherein W is C and X, Y and Z are independently selected from C and N, such that the ring containing W, X, Y and Z is a five membered aromatic heterocycle or a tautomer, stereoisomer, a pharmaceutically acceptable salt or solvate thereof.
- 51. The use of any one of claims 3, 5, 7, and 46-50;
 20 wherein W is C, X is N and Y and Z are selected from C and N, or a tautomer, stereoisomer, a pharmaceutically acceptable salt or solvate thereof.
- 52. The use of any one of claims 3, 5, 7, and 46-51;
 wherein R5 and R6 are independently absent or independently selected from H,
 CH₂OCH₃, cycloalkyl, -NR8R9, -NR8COR9, CN and CF₃; wherein cycloalkyl, R8 and R9 are as defined in claim 1; and wherein at least one of R5 and R6 is present and is not H, or a tautomer, stereoisomer, a pharmaceutically acceptable salt or solvate thereof.
- The use of any one of claims 3, 5, 7, and 46-52;
 wherein R5 is CH₂OCH₃,
 or a tautomer, stereoisomer, a pharmaceutically acceptable salt or solvate thereof.

54. The use of any one of claims 3, 5, 7, and 46-53; wherein A is phenyl substituted with -(CH₂)₁₋₃-heteroaryl or -(CH₂)₁₋₃-NR10R11; wherein heteroaryl, R10 and R11 are as defined in claim 1, or a tautomer, stereoisomer, a pharmaceutically acceptable salt or solvate thereof.

5

55. The use of claim 54, wherein A is phenyl substituted with $-(CH_2)_{1-3}$ -heteroaryl or $-(CH_2)_{1-3}$ -NR10R11 and 1 or 2 additional substituents independently selected from alkyl, halo and CF₃; wherein alkyl, heteroaryl, R10 and R11 are as defined in claim 1, or a tautomer, stereoisomer, a pharmaceutically acceptable salt or solvate thereof.

10

The use of any one of claims 3, 5, 7, and 46-53;
 wherein A is pyridyl substituted with heteroaryl^b or -NR10R11; wherein heteroaryl^b,
 R10 and R11 are as defined in claim 1,
 or a tautomer, stereoisomer, a pharmaceutically acceptable salt or solvate thereof.

15

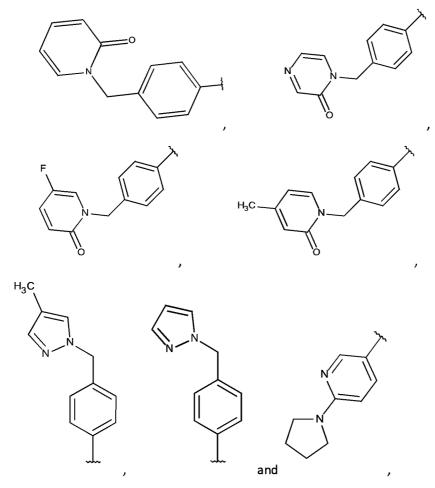
57. The use of claim 56, wherein A is pyridyl substituted with heteroaryl^b or -NR10R11 and 1 or 2 additional substituents independently selected from alkyl, halo and CF₃; wherein alkyl, heteroaryl^b, R10 and R11 are as defined in claim 1, or a tautomer, stereoisomer, a pharmaceutically acceptable salt or solvate thereof.

20

58. The use of any one of claims 54-57;

wherein R10 and R11 together with the nitrogen atom to which they are attached form a 5- or 6-membered carbon containing heterocylic ring, optionally containing an addition N atom, which may be saturated or unsaturated with 1 or 2 double bonds, and optionally mono- or di-substituted with substituents selected from oxo, methyl, Cl and F, or a tautomer, stereoisomer, a pharmaceutically acceptable salt or solvate thereof.

59. The use of any one of claims 3, 5, 7, and 46-53; wherein A is selected from:



5

60. The use of claim 59;

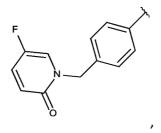
wherein A is selected from:

or a tautomer, stereoisomer, a pharmaceutically acceptable salt or solvate thereof.

10

61. The use of claim 59;

wherein A is selected from:



62. The use of any one of 3, 5, and 7,

5 wherein the compound is selected from:

3-Amino-1-[4-(2-oxo-2H-pyridin-1-ylmethyl)-benzyl]-1H-pyrazole-4-carboxylic acid 2fluoro-3-methoxy-benzylamide; N-[(2-fluoro-3-methoxyphenyl)methyl]-1-({4-[(4-methylpyrazol-1yl)methyl]phenyl}methyl)-3-(trifluoromethyl)pyrazole-4-carboxamide; N-[(2-fluoro-5-methoxyphenyl)methyl]-1-({4-[(4-methylpyrazol-1yl)methyl]phenyl}methyl)-3-(trifluoromethyl)pyrazole-4-carboxamide; N-{[2-fluoro-6-(trifluoromethyl)phenyl]methyl}-1-({4-[(4-methylpyrazol-1yl)methyl]phenyl}methyl)-3-(trifluoromethyl)pyrazole-4-carboxamide; N-[(4-chloro-2,6-difluorophenyl)methyl]-1-({4-[(4-methylpyrazol-1yl)methyl]phenyl}methyl)-3-(trifluoromethyl)pyrazole-4-carboxamide; N-{[3-chloro-2-fluoro-6-(trifluoromethyl)phenyl]methyl}-1-({4-[(4-methylpyrazol-1yl)methyl]phenyl}methyl)-3-(trifluoromethyl)pyrazole-4-carboxamide; N-[(2-fluoro-4-methylphenyl)methyl]-1-({4-[(4-methylpyrazol-1yl)methyl]phenyl}methyl)-3-(trifluoromethyl)pyrazole-4-carboxamide; N-[(3-fluoro-4-methoxypyridin-2-yl)methyl]-3-(methoxymethyl)-1-({4-[(2-oxopyridin-1yl)methyl]phenyl}methyl)pyrazole-4-carboxamide; N-[(5-chloro-1-benzothiophen-3-yl)methyl]-3-(methoxymethyl)-1-({4-[(2-oxopyridin-1yl)methyl]phenyl}methyl)pyrazole-4-carboxamide; N-{[2-fluoro-6-(trifluoromethyl)phenyl]methyl}-1-({4-[(2-oxopyridin-1yl)methyl]phenyl}methyl)-3-(trifluoromethyl)pyrazole-4-carboxamide;

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3-cyclopropyl-N-[(2-fluoro-3-methoxyphenyl)methyl]-1-({4-[(2-oxopyridin-1-
yl)methyl]phenyl}methyl)pyrazole-4-carboxamide;
N-[(2-fluoro-3-methoxyphenyl)methyl]-3-(methoxymethyl)-1-({4-[(2-oxopyridin-1-
yl)methyl]phenyl}methyl)pyrazole-4-carboxamide;
N-[(2-fluoro-3,6-dimethoxyphenyl)methyl]-3-(methoxymethyl)-1-({4-[(2-oxopyridin-1-
yl)methyl]phenyl}methyl)pyrazole-4-carboxamide;
3-(dimethylamino)-N-[(2-fluoro-3-methoxyphenyl)methyl]-1-({4-[(2-oxopyridin-1-
yl)methyl]phenyl}methyl)pyrazole-4-carboxamide;
N-[(2-fluoro-5-methoxyphenyl)methyl]-3-(methoxymethyl)-1-({4-[(2-oxopyridin-1-
yl)methyl]phenyl}methyl)pyrazole-4-carboxamide;
N-[(2-fluoro-4-methylphenyl)methyl]-3-(methoxymethyl)-1-({4-[(2-oxopyridin-1-
yl)methyl]phenyl}methyl)pyrazole-4-carboxamide;
N-[(2,6-difluoro-3-methoxyphenyl)methyl]-3-(methoxymethyl)-1-({4-[(2-oxopyridin-1-
yl)methyl]phenyl}methyl)pyrazole-4-carboxamide;
N-{[2-(difluoromethyl)phenyl]methyl}-3-(methoxymethyl)-1-({4-[(2-oxopyridin-1-
yl)methyl]phenyl}methyl)pyrazole-4-carboxamide;
N-{[2-(difluoromethyl)-3-methoxyphenyl]methyl}-3-(methoxymethyl)-1-({4-[(2-
oxopyridin-1-yl)methyl]phenyl}methyl)pyrazole-4-carboxamide;
3-amino-N-{[2-fluoro-6-(trifluoromethyl)phenyl]methyl}-1-({4-[(2-oxopyridin-1-
yl)methyl]phenyl}methyl)pyrazole-4-carboxamide;
3-acetamido-N-[(2-fluoro-3-methoxyphenyl)methyl]-1-({4-[(2-oxopyridin-1-
yl)methyl]phenyl}methyl)pyrazole-4-carboxamide;
N-[(3-chloro-2,6-difluorophenyl)methyl]-3-(methoxymethyl)-1-({4-[(2-oxopyridin-1-
yl)methyl]phenyl}methyl)pyrazole-4-carboxamide;
N-[(5-chloro-2-cyanophenyl)methyl]-3-(methoxymethyl)-1-({4-[(2-oxopyridin-1-
yl)methyl]phenyl}methyl)pyrazole-4-carboxamide;
N-[(6-cyano-2-fluoro-3-methoxyphenyl)methyl]-3-(methoxymethyl)-1-({4-[(2-
oxopyridin-1-yl)methyl]phenyl}methyl)pyrazole-4-carboxamide;
N-{[5-methoxy-2-(trifluoromethyl)phenyl]methyl}-3-(methoxymethyl)-1-({4-[(2-
oxopyridin-1-yl)methyl]phenyl}methyl)pyrazole-4-carboxamide;
N-{[2-(difluoromethyl)-6-fluorophenyl]methyl}-3-(methoxymethyl)-1-({4-[(2-
oxopyridin-1-yl)methyl]phenyl}methyl)pyrazole-4-carboxamide;
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N-{[2-(difluoromethyl)-5-methoxyphenyl]methyl}-3-(methoxymethyl)-1-({4-[(2-
oxopyridin-1-yl)methyl]phenyl}methyl)pyrazole-4-carboxamide;
N-{[2-(difluoromethyl)-6-fluoro-3-methoxyphenyl]methyl}-3-(methoxymethyl)-1-({4-
[(2-oxopyridin-1-yl)methyl]phenyl}methyl)pyrazole-4-carboxamide;
N-[(2-carbamoyl-6-fluorophenyl)methyl]-3-(methoxymethyl)-1-({4-[(2-oxopyridin-1-
yl)methyl]phenyl}methyl)pyrazole-4-carboxamide;
N-[(2-carbamoyl-5-methoxyphenyl)methyl]-3-(methoxymethyl)-1-({4-[(2-oxopyridin-1-
yl)methyl]phenyl}methyl)pyrazole-4-carboxamide;
N-{[3-(difluoromethoxy)-2-fluorophenyl]methyl}-3-(methoxymethyl)-1-({4-[(2-
oxopyridin-1-yl)methyl]phenyl}methyl)pyrazole-4-carboxamide;
N-{[2-(difluoromethoxy)-6-fluorophenyl]methyl}-3-(methoxymethyl)-1-({4-[(2-
oxopyridin-1-yl)methyl]phenyl}methyl)pyrazole-4-carboxamide;
N-[(2,5-difluoro-3-methoxyphenyl)methyl]-3-(methoxymethyl)-1-({4-[(2-oxopyridin-1-
yl)methyl]phenyl}methyl)pyrazole-4-carboxamide;
N-[(2-fluoro-6-methylphenyl)methyl]-3-(methoxymethyl)-1-({4-[(2-oxopyridin-1-
yl)methyl]phenyl}methyl)pyrazole-4-carboxamide;
N-[(6-chloro-2-fluoro-3-methoxyphenyl)methyl]-3-(methoxymethyl)-1-({4-[(2-
oxopyridin-1-yl)methyl]phenyl}methyl)pyrazole-4-carboxamide;
3-amino-N-[(2-fluoro-3-hydroxyphenyl)methyl]-1-({4-[(2-oxopyridin-1-
yl)methyl]phenyl}methyl)pyrazole-4-carboxamide;
N-[(3-ethyl-2-fluorophenyl)methyl]-3-(methoxymethyl)-1-({4-[(2-oxopyridin-1-
yl)methyl]phenyl}methyl)pyrazole-4-carboxamide;
3-(methoxymethyl)-N-[(3-methoxyphenyl)methyl]-1-({4-[(2-oxopyridin-1-
yl)methyl]phenyl}methyl)pyrazole-4-carboxamide;
N-[(2,6-difluoro-3-methoxyphenyl)methyl]-3-(methoxymethyl)-1-({4-[(4-methyl-2-
oxopyridin-1-yl)methyl]phenyl}methyl)pyrazole-4-carboxamide;
N-[(2,6-difluoro-3-methoxyphenyl)methyl]-1-({4-[(5-fluoro-2-oxopyridin-1-
yl)methyl]phenyl}methyl)-3-(methoxymethyl)pyrazole-4-carboxamide;
N-[(2-fluoro-3-methoxyphenyl)methyl]-2-methyl-1-({4-[(2-oxopyridin-1-
yl)methyl]phenyl}methyl)imidazole-4-carboxamide;
N-[(2-fluoro-3-methoxyphenyl)methyl]-1-({4-[(2-oxopyridin-1-
yl)methyl]phenyl}methyl)-2-(trifluoromethyl)imidazole-4-carboxamide;
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3-amino-N-[(7-chloro-4-methyl-2,3-dihydro-1,4-benzoxazin-2-yl)methyl]-1-({4-[(2-oxopyridin-1-yl)methyl]phenyl}methyl)pyrazole-4-carboxamide;
3-amino-N-[(7-chloro-3,4-dihydro-2H-1,4-benzoxazin-2-yl)methyl]-1-({4-[(2-oxopyridin-1-yl)methyl]phenyl}methyl)pyrazole-4-carboxamide
or a pharmaceutically acceptable salt and solvate thereof.

63. The use according to claim 62;wherein the compound is:

or a pharmaceutically acceptable salt or solvate thereof.

- The compound according to claim 8, wherein B is selected from phenyl substituted with 1 to 4 substituents selected from alkyl^b, alkoxy, OH, halo, CN, heteroaryl, COOR8, NHCOR8,
 CONR8R9, OCF₃, and CF₃; or B is selected from benzothiophenyl, benzofuranyl, and a 5 or 6 membered heterocyclic ring containing one or two heteroatoms selected from N, O and S; wherein said 5 or 6 membered heterocyclic ring may be aromatic or non-aromatic; and wherein said benzothiophenyl, said benzofuranyl or said 5 or 6 membered heterocyclic ring is substituted with 1 to 3 substituents selected from alkyl^b, alkoxy, OH, oxo, halo, CN, heteroaryl,
 COOR8, NHCOR8, CONR8R9, OCF₃ and CF₃; wherein alkyl^b, alkoxy, R8 and R9 are as defined in claim 9,
 or a tautomer, stereoisomer, a pharmaceutically acceptable salt or solvate thereof.
- The compound according to claim 8 or 64, wherein B is selected from phenyl,
 thiophenyl, benzothiophenyl and pyridyl, each substituted with 1 to 3 substituents selected from alkyl^b, alkoxy, halo, CN, COOR8, CONR8R9, OCF₃ and CF₃; wherein alkyl^b, alkoxy, R8 and R9

are as defined in claim 9; or a tautomer, stereoisomer, a pharmaceutically acceptable salt or solvate thereof.

- 66. The compound according to any one of claims 8, 9, 64 and 65, wherein B is selected from phenyl and pyridyl, each substituted with 1 to 3 substituents selected from alkyl^b, alkoxy, CF₃ and halo; wherein alkyl^b and alkoxy are as defined in claim 9, or a tautomer, stereoisomer, a pharmaceutically acceptable salt or solvate thereof.
- 67. The compound according to any one of claims 8, 9, and 64-66, wherein B is pyridyl substituted with 1 to 3 substituents selected from alkyl^b, alkoxy, CF₃ and halo; wherein alkyl^b and alkoxy are as defined in claim 9, or a tautomer, stereoisomer, a pharmaceutically acceptable salt or solvate thereof.
- 68. The compound according to any one of claims 8, 9, and 64-67, wherein W is C and X, Y

 15 and Z are independently selected from C and N, such that the ring containing W, X, Y and Z is a
 five membered aromatic heterocycle

 or a tautomer, stereoisomer, a pharmaceutically acceptable salt or solvate thereof.
- 69. The compound according to any one of claims 8, 9, and 64-68, wherein W is C, X is N
 20 and Y and Z are selected from C and N,
 or a tautomer, stereoisomer, a pharmaceutically acceptable salt or solvate thereof.
 - 70. The compound according to any one of claims 8, 9, and 64-69, wherein R5 and R6 are independently absent or independently selected from H, CH₂OCH₃, cycloalkyl, -NR8R9, -
- NR8COR9, CN and CF₃; wherein cycloalkyl, R8 and R9 are as defined in claim 9; and wherein at least one of R5 and R6 is present and is not H, or a tautomer, stereoisomer, a pharmaceutically acceptable salt or solvate thereof.
- 71. The compound according to any one of claims 8, 9, and 64-70, wherein R5 is CH₂OCH₃, or a tautomer, stereoisomer, a pharmaceutically acceptable salt or solvate thereof.

72. The compound according to any one of claims 8, 9, and 64-71, wherein A is phenyl substituted with - $(CH_2)_{1-3}$ -heteroaryl or - $(CH_2)_{1-3}$ -NR10R11; wherein heteroaryl, R10 and R11 are as defined in claim 9,

or a tautomer, stereoisomer, a pharmaceutically acceptable salt or solvate thereof.

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73. The compound according to claim 72, wherein A is phenyl substituted with $-(CH_2)_{1-3}$ -heteroaryl or $-(CH_2)_{1-3}$ -NR10R11 and 1 or 2 additional substituents independently selected from alkyl, halo and CF₃; wherein alkyl, heteroaryl, R10 and R11 are as defined in claim 9, or a tautomer, stereoisomer, a pharmaceutically acceptable salt or solvate thereof.

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- 74. The compound according to any one of claims 8, 9, and 64-71, wherein A is pyridyl substituted with heteroaryl^b or -NR10R11; wherein heteroaryl^b, R10 and R11 are as defined in claim 9,
- or a tautomer, stereoisomer, a pharmaceutically acceptable salt or solvate thereof.

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75. The compound according to claim 74, wherein A is pyridyl substituted with heteroaryl^b or -NR10R11 and 1 or 2 additional substituents independently selected from alkyl, halo and CF₃; wherein alkyl, heteroaryl^b, R10 and R11 are as defined in claim 9, or a tautomer, stereoisomer, a pharmaceutically acceptable salt or solvate thereof.

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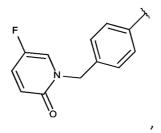
- 76. The compound according to any one of claims 72-75, wherein R10 and R11 together with the nitrogen atom to which they are attached form a 5- or 6-membered carbon containing heterocylic ring, optionally containing an addition N atom, which may be saturated or unsaturated with 1 or 2 double bonds, and optionally mono- or di-substituted with substituents selected from oxo, methyl, Cl and F,
 - or a tautomer, stereoisomer, a pharmaceutically acceptable salt or solvate thereof.
 - 77. The compound according to any one of claims 8, 9, and 64-71, wherein A is selected from:

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78. The compound according to claim 77, wherein A is selected from:

or a tautomer, stereoisomer, a pharmaceutically acceptable salt or solvate thereof.

10 79. The compound according to claim 77, wherein A is selected from:



80. The compound according to claim 8;

5 wherein the compound is selected from:

3-Amino-1-[4-(2-oxo-2H-pyridin-1-ylmethyl)-benzyl]-1H-pyrazole-4-carboxylic acid 2fluoro-3-methoxy-benzylamide; N-[(2-fluoro-3-methoxyphenyl)methyl]-1-({4-[(4-methylpyrazol-1yl)methyl]phenyl}methyl)-3-(trifluoromethyl)pyrazole-4-carboxamide; N-[(2-fluoro-5-methoxyphenyl)methyl]-1-({4-[(4-methylpyrazol-1yl)methyl]phenyl}methyl)-3-(trifluoromethyl)pyrazole-4-carboxamide; N-{[2-fluoro-6-(trifluoromethyl)phenyl]methyl}-1-({4-[(4-methylpyrazol-1yl)methyl]phenyl}methyl)-3-(trifluoromethyl)pyrazole-4-carboxamide; N-[(4-chloro-2,6-difluorophenyl)methyl]-1-({4-[(4-methylpyrazol-1yl)methyl]phenyl}methyl)-3-(trifluoromethyl)pyrazole-4-carboxamide; N-{[3-chloro-2-fluoro-6-(trifluoromethyl)phenyl]methyl}-1-({4-[(4-methylpyrazol-1yl)methyl]phenyl}methyl)-3-(trifluoromethyl)pyrazole-4-carboxamide; N-[(2-fluoro-4-methylphenyl)methyl]-1-({4-[(4-methylpyrazol-1yl)methyl]phenyl}methyl)-3-(trifluoromethyl)pyrazole-4-carboxamide; N-[(3-fluoro-4-methoxypyridin-2-yl)methyl]-3-(methoxymethyl)-1-({4-[(2-oxopyridin-1yl)methyl]phenyl}methyl)pyrazole-4-carboxamide; N-[(5-chloro-1-benzothiophen-3-yl)methyl]-3-(methoxymethyl)-1-({4-[(2-oxopyridin-1yl)methyl]phenyl}methyl)pyrazole-4-carboxamide; N-{[2-fluoro-6-(trifluoromethyl)phenyl]methyl}-1-({4-[(2-oxopyridin-1-

yl)methyl]phenyl}methyl)-3-(trifluoromethyl)pyrazole-4-carboxamide;

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3-cyclopropyl-N-[(2-fluoro-3-methoxyphenyl)methyl]-1-({4-[(2-oxopyridin-1-
yl)methyl]phenyl}methyl)pyrazole-4-carboxamide;
N-[(2-fluoro-3-methoxyphenyl)methyl]-3-(methoxymethyl)-1-({4-[(2-oxopyridin-1-
yl)methyl]phenyl}methyl)pyrazole-4-carboxamide;
N-[(2-fluoro-3,6-dimethoxyphenyl)methyl]-3-(methoxymethyl)-1-({4-[(2-oxopyridin-1-
yl)methyl]phenyl}methyl)pyrazole-4-carboxamide;
3-(dimethylamino)-N-[(2-fluoro-3-methoxyphenyl)methyl]-1-({4-[(2-oxopyridin-1-
yl)methyl]phenyl}methyl)pyrazole-4-carboxamide;
N-[(2-fluoro-5-methoxyphenyl)methyl]-3-(methoxymethyl)-1-({4-[(2-oxopyridin-1-
yl)methyl]phenyl}methyl)pyrazole-4-carboxamide;
N-[(2-fluoro-4-methylphenyl)methyl]-3-(methoxymethyl)-1-({4-[(2-oxopyridin-1-
yl)methyl]phenyl}methyl)pyrazole-4-carboxamide;
N-[(2,6-difluoro-3-methoxyphenyl)methyl]-3-(methoxymethyl)-1-({4-[(2-oxopyridin-1-
yl)methyl]phenyl}methyl)pyrazole-4-carboxamide;
N-{[2-(difluoromethyl)phenyl]methyl}-3-(methoxymethyl)-1-({4-[(2-oxopyridin-1-
yl)methyl]phenyl}methyl)pyrazole-4-carboxamide;
N-{[2-(difluoromethyl)-3-methoxyphenyl]methyl}-3-(methoxymethyl)-1-({4-[(2-
oxopyridin-1-yl)methyl]phenyl}methyl)pyrazole-4-carboxamide;
3-amino-N-{[2-fluoro-6-(trifluoromethyl)phenyl]methyl}-1-({4-[(2-oxopyridin-1-
yl)methyl]phenyl}methyl)pyrazole-4-carboxamide;
3-acetamido-N-[(2-fluoro-3-methoxyphenyl)methyl]-1-({4-[(2-oxopyridin-1-
yl)methyl]phenyl}methyl)pyrazole-4-carboxamide;
N-[(3-chloro-2,6-difluorophenyl)methyl]-3-(methoxymethyl)-1-({4-[(2-oxopyridin-1-
yl)methyl]phenyl}methyl)pyrazole-4-carboxamide;
N-[(5-chloro-2-cyanophenyl)methyl]-3-(methoxymethyl)-1-({4-[(2-oxopyridin-1-
yl)methyl]phenyl}methyl)pyrazole-4-carboxamide;
N-[(6-cyano-2-fluoro-3-methoxyphenyl)methyl]-3-(methoxymethyl)-1-({4-[(2-
oxopyridin-1-yl)methyl]phenyl}methyl)pyrazole-4-carboxamide;
N-{[5-methoxy-2-(trifluoromethyl)phenyl]methyl}-3-(methoxymethyl)-1-({4-[(2-
oxopyridin-1-yl)methyl]phenyl}methyl)pyrazole-4-carboxamide;
N-{[2-(difluoromethyl)-6-fluorophenyl]methyl}-3-(methoxymethyl)-1-({4-[(2-
oxopyridin-1-yl)methyl]phenyl}methyl)pyrazole-4-carboxamide;
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N-{[2-(difluoromethyl)-5-methoxyphenyl]methyl}-3-(methoxymethyl)-1-({4-[(2-
oxopyridin-1-yl)methyl]phenyl}methyl)pyrazole-4-carboxamide;
N-{[2-(difluoromethyl)-6-fluoro-3-methoxyphenyl]methyl}-3-(methoxymethyl)-1-({4-
[(2-oxopyridin-1-yl)methyl]phenyl}methyl)pyrazole-4-carboxamide;
N-[(2-carbamoyl-6-fluorophenyl)methyl]-3-(methoxymethyl)-1-({4-[(2-oxopyridin-1-
yl)methyl]phenyl}methyl)pyrazole-4-carboxamide;
N-[(2-carbamoyl-5-methoxyphenyl)methyl]-3-(methoxymethyl)-1-({4-[(2-oxopyridin-1-
yl)methyl]phenyl}methyl)pyrazole-4-carboxamide;
N-{[3-(difluoromethoxy)-2-fluorophenyl]methyl}-3-(methoxymethyl)-1-({4-[(2-
oxopyridin-1-yl)methyl]phenyl}methyl)pyrazole-4-carboxamide;
N-{[2-(difluoromethoxy)-6-fluorophenyl]methyl}-3-(methoxymethyl)-1-({4-[(2-
oxopyridin-1-yl)methyl]phenyl}methyl)pyrazole-4-carboxamide;
N-[(2,5-difluoro-3-methoxyphenyl)methyl]-3-(methoxymethyl)-1-({4-[(2-oxopyridin-1-
yl)methyl]phenyl}methyl)pyrazole-4-carboxamide;
N-[(2-fluoro-6-methylphenyl)methyl]-3-(methoxymethyl)-1-({4-[(2-oxopyridin-1-
yl)methyl]phenyl}methyl)pyrazole-4-carboxamide;
N-[(6-chloro-2-fluoro-3-methoxyphenyl)methyl]-3-(methoxymethyl)-1-({4-[(2-
oxopyridin-1-yl)methyl]phenyl}methyl)pyrazole-4-carboxamide;
3-amino-N-[(2-fluoro-3-hydroxyphenyl)methyl]-1-({4-[(2-oxopyridin-1-
yl)methyl]phenyl}methyl)pyrazole-4-carboxamide;
N-[(3-ethyl-2-fluorophenyl)methyl]-3-(methoxymethyl)-1-({4-[(2-oxopyridin-1-
yl)methyl]phenyl}methyl)pyrazole-4-carboxamide;
3-(methoxymethyl)-N-[(3-methoxyphenyl)methyl]-1-({4-[(2-oxopyridin-1-
yl)methyl]phenyl}methyl)pyrazole-4-carboxamide;
N-[(2,6-difluoro-3-methoxyphenyl)methyl]-3-(methoxymethyl)-1-({4-[(4-methyl-2-
oxopyridin-1-yl)methyl]phenyl}methyl)pyrazole-4-carboxamide;
N-[(2,6-difluoro-3-methoxyphenyl)methyl]-1-({4-[(5-fluoro-2-oxopyridin-1-
yl)methyl]phenyl}methyl)-3-(methoxymethyl)pyrazole-4-carboxamide;
N-[(2-fluoro-3-methoxyphenyl)methyl]-2-methyl-1-({4-[(2-oxopyridin-1-
yl)methyl]phenyl}methyl)imidazole-4-carboxamide;
N-[(2-fluoro-3-methoxyphenyl)methyl]-1-({4-[(2-oxopyridin-1-
yl)methyl]phenyl}methyl)-2-(trifluoromethyl)imidazole-4-carboxamide;
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3-amino-N-[(7-chloro-4-methyl-2,3-dihydro-1,4-benzoxazin-2-yl)methyl]-1-({4-[(2-oxopyridin-1-yl)methyl]phenyl}methyl)pyrazole-4-carboxamide;
3-amino-N-[(7-chloro-3,4-dihydro-2H-1,4-benzoxazin-2-yl)methyl]-1-({4-[(2-oxopyridin-1-yl)methyl]phenyl}methyl)pyrazole-4-carboxamide
or a pharmaceutically acceptable salt and solvate thereof.

81. The compound according to claim 80, wherein the compound is:

- 5 or a pharmaceutically acceptable salt or solvate thereof.
 - 82. A pharmaceutical composition comprising (i) a compound as claimed in any one of claims 8 and 9, or a tautomer, stereoisomer, a pharmaceutically acceptable salt or solvate thereof and (ii) a pharmaceutically acceptable carrier, diluent or excipient.

83. A compound for use according to any one of claims 2, 4, 6, and 28-45, or a tautomer, stereoisomer;

wherein the disease or condition in which plasma kallikrein activity is implicated is hereditary angioedema.

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- 84. The use of any one of claims 3, 5, 7, and 46-63, or a tautomer, stereoisomer; wherein the disease or condition in which plasma kallikrein activity is implicated is hereditary angioedema.
- 20 85. The compound for use as claimed in any one of claims 2, 4, 6, 28-45, or a tautomer, stereoisomer;

wherein the disease or condition in which plasma kallikrein activity is implicated is diabetic macular edema.

86. The use as claimed in any one of claims 3, 5, 7, and 46-63, or a tautomer, stereoisomer;

wherein the disease or condition in which plasma kallikrein activity is implicated is diabetic macular edema.

