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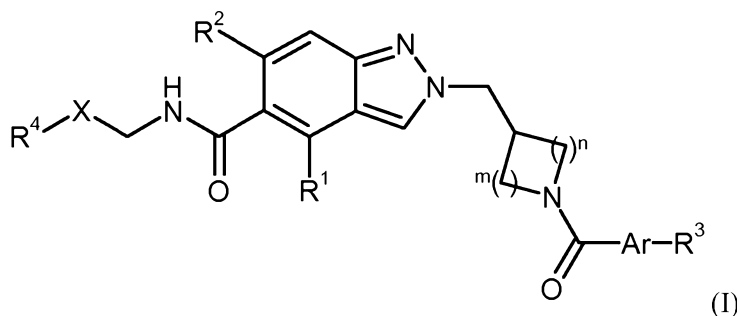
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(54) Title: NOVEL 2H-INDAZOLES AS EP₂ RECEPTOR ANTAGONISTS



(57) Abstract: The present invention relates to novel 2H-indazoles of the general formula (I), methods for the preparation thereof and the use thereof for the production of pharmaceutical agents for the treatment of diseases and indications which are linked with the EP₂-receptor.

Novel 2H-indazoles as EP₂ Receptor Antagonists

The present invention relates to novel EP₂ receptor antagonists, the production thereof and the use thereof as drugs, and pharmaceutical preparations which contain the new 2H-indazoles.

5 It has already long been known that prostaglandins are key molecules in the processes of female reproductive biology, such as for example the regulation of ovulation and fertilization. Effects on uterine contractions, implantation, decidualization (e.g. placenta formation) and menstruation have also been described, or are the subject of scientific studies. Prostaglandins also play an important part in pathological changes in the reproductive tract, including menorrhagia, dysmenorrhoea, 10 endometriosis, fibroids (myomas) and cancer, and in general in inflammatory (e.g. Crohn disease), infections (e.g. bacterial infections) and neurodegenerative processes (e.g. Alzheimer, ALS), and functions in the immune defence, angiogenesis, pain, wound healing and interactions with the endocrine system (e.g. aromatase induction) are known. Hitherto, the mechanism through which prostaglandins effect the changes has not been completely elucidated. Recent 15 findings indicate that prostaglandins, their receptors and their signal transduction paths are involved in processes such as angiogenesis, apoptosis, proliferation and in inflammatory/anti-inflammatory processes.

The effects of the prostaglandins are mediated through their G protein coupled receptors, which 20 are located in the cell membrane. Of particular interest is prostaglandin E₂ (PGE₂), which effects a great variety of cellular actions by binding to functionally different receptor subtypes, namely the EP₁, EP₂, EP₃ and EP₄ receptors. The receptor subtypes to which prostaglandin E₂ binds appear to be of particular importance for the receptor-mediated actions which are involved in the regulation of fertility. Thus it could be shown that the reproductive functions are impaired in EP₂ 25 knockout mice (EP₂^{-/-}), e.g. in mice which no longer have a functional PGE₂ receptor subtype EP₂, and that these animals have a smaller "litter" (Matsumoto *et al.*, 2001, *Biology of Reproduction* 64, 1557-1565). Likewise it could be shown that these EP₂ knockout mice (Hizaki *et al.*, 1999, *Proc Natl Acad Sci U. S. A.*, Aug 31; 96(18):10501-10506) display markedly decreased cumulus expansion and severe subfertility, which is to be regarded as being causally 30 linked with decreased reproductive processes such as ovulation and fertilization.

Accordingly, the EP₂ receptor is an important target for the development of drugs for the regulation of female fertility. The existence of the 4 subclasses of the PGE₂ receptor opens up the possibility of targeted development of selectively active compounds. Previously, however, 35 hardly any selective EP₂ receptor antagonists were known, since most known compounds also

bind to the other PGE₂ receptor subtypes, such as for example to the EP₄ receptor or other prostaglandin receptors such as the DP receptor.

EP₂ receptor antagonists are for example described in the application US2005059742 and
5 EP1467738 (Jabbour, Medical Research Council). A method is claimed wherein an EP₂ and/or an EP₄ antagonist can be used for the treatment of menorrhagia and dysmenorrhoea. AH6809 is disclosed as an antagonist of the EP₂ or EP₄ receptor, and no other specific antagonists and no new compounds are disclosed.

10 In the application WO03/016254, Ono Pharmaceutical claims the production of arylcarboxylic acids or saturated carboxylic acid derivatives which are aryl group or heterocycle-substituted inter alia as PGE₂ receptor antagonists. The disclosed compounds are claimed for the treatment of a large number of diseases, also including allergic diseases, Alzheimer's disease, pain, abortion, menstrual problems, menorrhagia and dysmenorrhoea, endometriosis, diseases of the
15 bones, ischaemia etc. However, the compounds described are characterized by a particularly high affinity for the EP₃ receptor. In a further application (WO04/032964), newer compounds are described which are also characterized by a particularly high affinity for the EP₃ receptor, but also find use as EP₂ antagonists, for the treatment and prophylaxis of allergic diseases.

20 In the applications from the company Applied Research Systems WO03/053923 (substituted pyrrolidines) or WO03/035064 (substituted pyrazolidiones), compounds for the treatment of diseases which are associated with prostaglandins, such as for example infertility, hypertension and osteoporosis, are claimed. The compounds bind to the EP₄ and the EP₂ receptor subtypes.

25 In the application WO03/064391 (Pfizer Products), metabolites of [3-[[N-(4-tert-butylbenzyl)-(pyridin-3-ylsulphonyl)amino]methyl] acetic acid are described, which inhibit the binding of [³H] prostaglandin E₂ to the EP₂ receptor. The use of these metabolites for the treatment of osteoporosis is disclosed.

30 In the application US2005124577, Tani *et al.* claim 8-azaprostaglandin derivatives for the treatment of immunological diseases, allergic diseases, premature labour, abortion, etc. The compounds bind to the EP₂ and the EP₄ receptor.

In the patent applications from Bayer Schering Pharma AG (WO2007/057232,
35 WO2007/071456, WO2008/028689, WO2008/028690 WO2008/028691, WO2008/0152099,

WO2008/0152097, WO2008/0152094, WO2009/007421, WO2009/007422) and DE 10 2009 049 662 A1, selective antagonists of the EP₂ receptors are for the first time claimed.

In the applications from Summit Corporation PLC (WO2007/091107) and CM Sun *et al.*
5 (WO2008/070599) 2*H*-indazoles are disclosed, but not for the treatment of fertility disorders.

In the applications from Pfizer WO2009/063365 and WO2008/139287, azetidines and in WO2010/052625 pyrrolidones as antagonists of the EP₂ receptor, and the use thereof for the treatment of EP₂-mediated conditions such as endometriosis and leiomyomata are claimed.

10

In a publication (British Journal of Pharmacology (2011), 164, 1847-1856), Forselles *et al.* (Pfizer) describe selective antagonists of the EP₂ receptors. The compounds are azetidines which display an *in-vivo* influence on the blood flow. The compounds display high protein binding.

15 In a publication by P.M. Roveto *et al.* (239. ACS National Meeting of the Division of Medicinal Chemistry, 21.-25. March 2010, San Francisco, USA; MEDI 173), novel thiazoles are described as EP₂ antagonists.

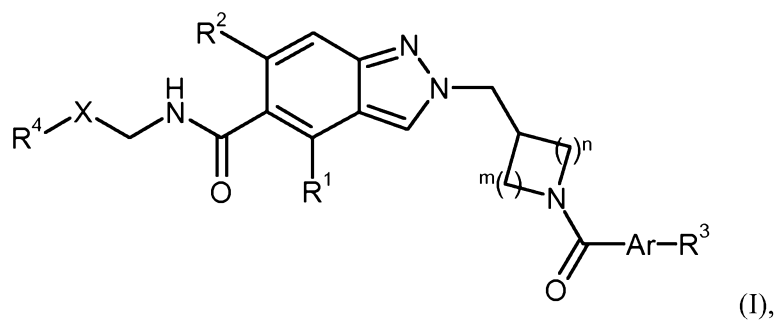
EP₂ receptor antagonists are also described in the application by Ligand Pharmaceuticals Inc.
20 (WO2010/008777). These compounds are bicyclic pyridine derivatives. The compounds are claimed for the treatment of pain, but also for the treatment of Alzheimer's disease, multiple sclerosis and fertility disorders.

For the regulation of the processes which are ultimately responsible for ovulation and
25 fertilization and which thus contribute to the inhibition of fertility, other *in vivo* active antagonists of the EP₂ receptor with improved properties are needed.

Hence the purpose of the present invention was to provide other antagonists of the EP₂ receptor with improved properties which are available *in vivo*, and thus effective, and stable.

30

This problem was solved through the compounds of the general formula I,



wherein

R¹: means H, C₁-C₂ alkyl or C₁-C₂ alkyloxy;

5

R²: H or methyl;

subject to the proviso that one of the two residues R¹ or R² equals H;

10 X: -(CH₂)_l-, -(CH₂)_k-O-, -CH₂-S-, CH₂-S(O)₂-, -CH(CH₃)-, -CH(CH₃)-O- or -C(CH₃)₂-O-;

k: 1 or 2;

l: 0, 1 or 2;

15

R⁴: H, C₁-C₄ alkyl, C₃-C₄ cycloalkyl, or CH₂-C₃-C₄ cycloalkyl;

and in the case of X: -CH₂- or -CH(CH₃)-

20 R⁴: additionally a 4-6-membered heterocyclyl residue;

and in the case of X: -(CH₂)_l- or -CH(CH₃)-

R⁴: additionally CN;

25

or

X together with R⁴ form a 4-6-membered heterocyclyl residue via a ring carbon linkage;

30 m: 1 or 2;

n: 1 or 2;

Ar: a 6-10-membered aryl or 5-10-membered hetaryl residue,

5 R³: halogen, CN, SF₅, C₁-C₄ alkyl, C₃-C₆ cycloalkyl, C₄-C₆ heterocyclyl, O-C₁-C₄ alkyl, O-C₃-C₆ cycloalkyl, O-C₄-C₆ heterocyclyl, S-C₁-C₄ alkyl, S(O)₂-C₁-C₄ alkyl, Ar', O-Ar', C(CH₃)₂-CN or C(CH₃)₂-OH;

10 Ar': an optionally singly or doubly substituted 6-membered aryl or 5-6-membered heteroaryl residue;
wherein the substituents are selected from F, Cl, CN, C₁-C₄ alkyl, O-C₁-C₄ alkyl, C(CH₃)₂-CN, C(CH₃)₂-OH and C(O)NH₂;

15 and isomers, diastereomers, enantiomers and salts or cyclodextrin clathrates thereof, **for the production of drugs** which overcome the known disadvantages and have improved properties such as good *in-vivo* activity, good solubility and stability.

The compounds according to the invention have an antagonistic action on the EP₂ receptor and thus inter alia serve for female fertility control.

20 C₁-C₂ alkyl or C₁-C₄ alkyl should each be understood to mean a linear or branched alkyl residue, such as for example methyl, ethyl, propyl, isopropyl, butyl, isobutyl, sec-butyl or tert-butyl. The alkyl residues can optionally be singly or multiply substituted with fluorine.

25 The hydrogen atoms can optionally be replaced by deuterium.

C₁-C₂ alkoxy or C₁-C₄ alkoxy should be understood to mean a linear or branched residue of the formula alkyl-O-, such as for example methoxy, ethoxy, n-propoxy, isopropoxy, n-butoxy, sec-butoxy, isobutoxy or tert-butyloxy.

30 The alkoxy residues can optionally be singly or multiply substituted with fluorine.

C₃-C₆ cycloalkyl should be understood to mean monocyclic alkyl rings such as cyclopropyl, cyclobutyl, cyclopentyl and cyclohexyl.

The cycloalkyl residues can optionally be singly or multiply substituted with fluorine.

35

4-6-membered heterocyclyl should be understood to mean monocyclic rings which instead of the carbon atoms contain one or more hetero atoms, such as oxygen, sulphur and/or nitrogen or a hetero group such as -S(O)- or -SO₂-. The linking bond can be at any carbon atom or at a nitrogen atom.

- 5 For example, azetidiny, pyrrolidiny, piperidiny, piperaziny, 1,4-diazepany, morpholiny, thiomorpholiny, oxetany, tetrahydrofurany, tetrahydropyrany, 1,4-dioxany and 2-oxo-oxazolidiny may be mentioned.

The heterocyclyl residues can optionally be singly or multiply substituted with fluorine, hydroxy, methoxy or with oxo.

10

Halogen should in each case be understood to mean fluorine, chlorine, bromine or iodine.

The C₆-C₁₀-membered aryl residue in each case comprises 6 - 10 carbon atoms and can be benzo-condensed. Phenyl and naphthyl may be mentioned

- 15 The C₆-C₁₀-membered aryl residue can optionally be singly substituted with fluorine, chlorine or a methyl group.

The C₅-C₁₀ heteroaryl residue should be understood to mean mono- or bicyclic ring systems which each contain 5 - 10 ring atoms and which instead of the carbon can contain one or more
20 identical or different hetero atoms, such as oxygen, sulphur or nitrogen. The linking bond can be at any carbon atom or at a nitrogen atom.

- For example, thienyl, thiazolyl, furyl, pyrrolyl, oxazolyl, imidazolyl, pyrazolyl, isoxazolyl, isothiazolyl, oxadiazolyl, triazolyl, thiadiazolyl, tetrazolyl, pyridyl, pyridaziny, pyrimidinyl, pyrazinyl, triazinyl, phthalidyl, thiophthalidyl, indolyl, isoindolyl, indazolyl, benzothiazolyl,
25 benzofuryl, benzothienyl, benzimidazolyl, benzoxazolyl, azociny, indoliziny, puriny, isoquinoliny, quinoliny, quinoliziny, quinazolinyl, quinoxaliny, cinnoliny, phthalaziny, 1,7- or 1,8-naphthyridiny and pteridiny may be mentioned.

- The C₅-C₁₀-membered heteroaryl residue can optionally be singly substituted by fluorine,
30 chlorine or a methyl group.

If a basic functional group is contained, the physiologically compatible salts of organic and inorganic acids, such as inter alia hydrochloric acid, sulphuric acid, phosphoric acid, citric acid and tartaric acid, are suitable

35

Preferred are compounds of the formula I, wherein

R¹, R²: mean H or methyl;

subject to the proviso that one of the two residues R¹ or R² equals H;

5

X: -(CH₂)_l- or -(CH₂)_k-O-;

k: 1 or 2;

10 l: 0, 1 or 2;

R⁴: C₁-C₄ alkyl, C₃-C₄ cycloalkyl or CH₂-C₃-C₄ cycloalkyl;

m, n: 2;

15

and isomers, diastereomers, enantiomers and salts or cyclodextrin clathrates thereof and R³, Ar and Ar' have the aforesaid meanings.

Also preferred are compounds of the formula I, wherein

20

R¹, R²: mean H or methyl;

subject to the proviso that one of the two residues R¹ or R² equals H;

25 X: -(CH₂)_l- or -(CH₂)_k-O-;

k: 1 or 2;

l: 0, 1 or 2;

30

R⁴: C₁-C₄ alkyl, -C₃-C₄ cycloalkyl or CH₂-C₃-C₄ cycloalkyl;

m, n: 1;

35 and isomers, diastereomers, enantiomers and salts or cyclodextrin clathrates thereof and R³, Ar and Ar' have the aforesaid meanings.

Also preferred are compounds of the formula I, wherein

R¹: means a methyl group;

5

R²: H;

X: -(CH₂)_l- or -(CH₂)_k-O-;

10 k: 1;

l: 0 or 1;

R⁴: C₁-C₄ alkyl, C₃-C₄ cycloalkyl or CH₂-C₃-C₄ cycloalkyl;

15

m, n: 2;

Ar: a phenyl residue;

20 and isomers, diastereomers, enantiomers and salts or cyclodextrin clathrates thereof and R³ and Ar' have the aforesaid meanings.

Additionally preferred are compounds of the formula I, wherein

25 R¹: means a methyl group;

R²: H;

X: -(CH₂)_l- or -(CH₂)_k-O-;

30

k: 1;

l: 0 or 1;

35 R⁴: C₁-C₄ alkyl, C₃-C₄ cycloalkyl or CH₂-C₃-C₄ cycloalkyl;

m, n: 1;

Ar: a phenyl residue;

- 5 and isomers, diastereomers, enantiomers and salts or cyclodextrin clathrates thereof and R³ and Ar' have the aforesaid meanings.

The following compounds according to the present invention are quite particularly preferred:

- 10 1. 2- {[1-(4-cyano-2-fluorobenzoyl)piperidin-4-yl]methyl} -N-(2-methoxyethyl)-4-methyl-2H-indazol-5-carboxamide
2. 2- {[1-(4-tert-butoxybenzoyl)piperidin-4-yl]methyl} -N-(2-methoxyethyl)-4-methyl-2H-indazol-5-carboxamide
3. 2-({1-[4-(4-fluorophenoxy)benzoyl]piperidin-4-yl} methyl)-N-(2-methoxyethyl)-4-methyl-2H-indazol-5-carboxamide
- 15 4. N-(2-methoxyethyl)-4-methyl-2- {[1-(4-morpholinobenzoyl)piperidin-4-yl]methyl} -2H-indazol-5-carboxamide
5. 2-({1-[4'-fluorobiphenyl-4-yl]carbonyl]piperidin-4-yl} methyl)-N-(2-methoxyethyl)-4-methyl-2H-indazol-5-carboxamide
- 20 6. 2- {[1-(2-fluoro-4-mesylbenzoyl)piperidin-4-yl]methyl} -N-(2-methoxyethyl)-4-methyl-2H-indazol-5-carboxamide
7. 2- {[1-(2-fluoro-4-methoxybenzoyl)piperidin-4-yl]methyl} -N-(2-methoxyethyl)-4-methyl-2H-indazol-5-carboxamide
8. 2- {[1-(4-bromo-2-fluorobenzoyl)piperidin-4-yl]methyl} -N-(2-methoxyethyl)-4-methyl-2H-indazol-5-carboxamide
- 25 9. 2- {[1-(2-fluoro-4-methylbenzoyl)piperidin-4-yl]methyl} -N-(2-methoxyethyl)-4-methyl-2H-indazol-5-carboxamide
10. 2-({1-[2-fluoro-4-(trifluoromethyl)benzoyl]piperidin-4-yl} methyl)-N-(2-methoxyethyl)-4-methyl-2H-indazol-5-carboxamide
- 30 11. N-(2-methoxyethyl)-4-methyl-2-({1-[4-(pentafluoro- λ^6 -sulphanyl)benzoyl]piperidin-4-yl} methyl)-2H-indazol-5-carboxamide
12. N-(2-methoxyethyl)-4-methyl-2- {[1-(4-methylbenzoyl)piperidin-4-yl]methyl} -2H-indazol-5-carboxamide
- 35 13. 2-({1-[4-(4-chlorophenoxy)benzoyl]piperidin-4-yl} methyl)-N-(2-methoxyethyl)-4-methyl-2H-indazol-5-carboxamide

14. N-(2-methoxyethyl)-4-methyl-2-({1-[4-(4-methylphenoxy)benzoyl]piperidin-4-yl}-methyl)-2H-indazol-5-carboxamide
15. 2-({1-[4-(4-tert-butylphenoxy)benzoyl]piperidin-4-yl}methyl)-N-(2-methoxyethyl)-4-methyl-2H-indazol-5-carboxamide
- 5 16. N-(2-methoxyethyl)-4-methyl-2-([1-{4-[4-(trifluoromethyl)phenoxy]benzoyl}piperidin-4-yl)methyl]-2H-indazol-5-carboxamide
17. N-(2-methoxyethyl)-2-({1-[4-(4-methoxyphenoxy)benzoyl]piperidin-4-yl}methyl)-4-methyl-2H-indazol-5-carboxamide
18. N-(2-methoxyethyl)-4-methyl-2- {[1-(4-phenoxybenzoyl)piperidin-4-yl]methyl} -2H-
10 indazol-5-carboxamide
19. 2- {[1-(4-cyclopropylbenzoyl)piperidin-4-yl]methyl} -N-(2-methoxyethyl)-4-methyl-2H-indazol-5-carboxamide
20. 2- {[1-(4-methoxybenzoyl)piperidin-4-yl]methyl} -N-(2-methoxyethyl)-4-methyl-2H-indazol-5-carboxamide
- 15 21. 2- {[1-(4-fluorobenzoyl)piperidin-4-yl]methyl} -N-(2-methoxyethyl)-4-methyl-2H-indazol-5-carboxamide
22. N-(2-methoxyethyl)-4-methyl-2-({1-[4-(trifluoromethyl)benzoyl]piperidin-4-yl}-methyl)-2H-indazol-5-carboxamide
23. 2- {[1-(2-methoxybenzoyl)piperidin-4-yl]methyl} -N-(2-methoxyethyl)-4-methyl-2H-
20 indazol-5-carboxamide
24. N-(2-methoxyethyl)-4-methyl-2-([1-{4-[(trifluoromethyl)sulphonyl]benzoyl}piperidin-4-yl)methyl]-2H-indazol-5-carboxamide
25. N-(2-methoxyethyl)-4-methyl-2-({1-[3-(trifluoromethyl)benzoyl]piperidin-4-yl}-methyl)-2H-indazol-5-carboxamide
- 25 26. N-(2-methoxyethyl)-4-methyl-2- {[1-(3-methylbenzoyl)piperidin-4-yl]methyl} -2H-indazol-5-carboxamide
27. 2- {[1-(3-chlorobenzoyl)piperidin-4-yl]methyl} -N-(2-methoxyethyl)-4-methyl-2H-indazol-5-carboxamide
28. 2-({1-[4-(4-carbamoylphenoxy)benzoyl]piperidin-4-yl}methyl)-N-(2-methoxyethyl)-4-
30 methyl-2H-indazol-5-carboxamide
29. 2-({1-[4-(cyclopentylloxy)benzoyl]piperidin-4-yl}methyl)-N-(2-methoxyethyl)-4-methyl-2H-indazol-5-carboxamide
30. 2-({1-[4-(difluoromethyl)benzoyl]piperidin-4-yl}methyl)-N-(2-methoxyethyl)-4-methyl-2H-indazol-5-carboxamide
- 35 31. 2- {[1-(4-cyanobenzoyl)piperidin-4-yl]methyl} -N-(2-methoxyethyl)-4-methyl-2H-indazol-5-carboxamide

32. 2-({1-[4-(1H-imidazol-1-yl)benzoyl]piperidin-4-yl}methyl)-N-(2-methoxyethyl)-4-methyl-2H-indazol-5-carboxamide
33. N-(2-methoxyethyl)-4-methyl-2-({1-[4-(oxazol-2-yl)benzoyl]piperidin-4-yl}methyl)-2H-indazol-5-carboxamide
- 5 34. N-(2-methoxyethyl)-4-methyl-2-({1-[4-(oxazol-5-yl)benzoyl]piperidin-4-yl}methyl)-2H-indazol-5-carboxamide
35. N-(2-methoxyethyl)-4-methyl-2-({1-[4-(isoxazol-5-yl)benzoyl]piperidin-4-yl}methyl)-2H-indazol-5-carboxamide
36. N-(2-methoxyethyl)-4-methyl-2-({1-[4-(1H-pyrazol-1-yl)benzoyl]piperidin-4-yl}-methyl)-2H-indazol-5-carboxamide
- 10 37. N-(2-methoxyethyl)-4-methyl-2-({1-[4-(1H-1,2,4-triazol-1-yl)benzoyl]piperidin-4-yl}-methyl)-2H-indazol-5-carboxamide
38. 2-({1-[4-(difluoromethoxy)-2-fluorobenzoyl]piperidin-4-yl}methyl)-N-(2-methoxyethyl)-4-methyl-2H-indazol-5-carboxamide
- 15 39. 2-({1-[2-fluoro-4-(pyrrolidin-1-yl)benzoyl]piperidin-4-yl}methyl)-N-(2-methoxyethyl)-4-methyl-2H-indazol-5-carboxamide
40. 2-({1-[(3,4'-difluorobiphenyl-4-yl)carbonyl]piperidin-4-yl}methyl)-N-(2-methoxyethyl)-4-methyl-2H-indazol-5-carboxamide
41. 2-({1-[(3-fluoro-4'-methoxybiphenyl-4-yl)carbonyl]piperidin-4-yl}methyl)-N-(2-methoxyethyl)-4-methyl-2H-indazol-5-carboxamide
- 20 42. 2-({1-[(3-fluoro-4'-methylbiphenyl-4-yl)carbonyl]piperidin-4-yl}methyl)-N-(2-methoxyethyl)-4-methyl-2H-indazol-5-carboxamide
43. 2-[(1-{[3-fluoro-3'-(trifluoromethyl)biphenyl-4-yl]carbonyl}piperidin-4-yl)methyl]-N-(2-methoxyethyl)-4-methyl-2H-indazol-5-carboxamide
- 25 44. 2-[(1-{[3-fluoro-2'-(trifluoromethoxy)biphenyl-4-yl]carbonyl}piperidin-4-yl)methyl]-N-(2-methoxyethyl)-4-methyl-2H-indazol-5-carboxamide
45. 2-({1-[(2'-fluorobiphenyl-4-yl)carbonyl]piperidin-4-yl}methyl)-N-(2-methoxyethyl)-4-methyl-2H-indazol-5-carboxamide
46. 2-({1-[(2',4'-difluorobiphenyl-4-yl)carbonyl]piperidin-4-yl}methyl)-N-(2-methoxyethyl)-4-methyl-2H-indazol-5-carboxamide
- 30 47. 2-({1-[(2-fluorobiphenyl-4-yl)carbonyl]piperidin-4-yl}methyl)-N-(2-methoxyethyl)-4-methyl-2H-indazol-5-carboxamide
48. N-(2-methoxyethyl)-4-methyl-2-({1-[(2'-methylbiphenyl-4-yl)carbonyl]piperidin-4-yl}-methyl)-2H-indazol-5-carboxamide
- 35 49. N-(2-methoxyethyl)-4-methyl-2-({1-[4-(4-pyridyloxy)benzoyl]piperidin-4-yl}methyl)-2H-indazol-5-carboxamide

50. N-(2-methoxyethyl)-4-methyl-2-({1-[4-(4H-1,2,4-triazol-4-yl)benzoyl]piperidin-4-yl}-methyl)-2H-indazol-5-carboxamide
51. 2-{{1-(2-fluoro-4-morpholinobenzoyl)piperidin-4-yl}methyl}-N-(2-methoxyethyl)-4-methyl-2H-indazol-5-carboxamide
- 5 52. 2-{{1-(4-bromobenzoyl)piperidin-4-yl}methyl}-N-(2-methoxyethyl)-4-methyl-2H-indazol-5-carboxamide
53. N-(2-methoxyethyl)-4-methyl-2-({1-[4-(trifluoromethoxy)benzoyl]piperidin-4-yl}-methyl)-2H-indazol-5-carboxamide
54. 2-{{1-(4-chlorobenzoyl)piperidin-4-yl}methyl}-N-(2-methoxyethyl)-4-methyl-2H-indazol-5-carboxamide
- 10 55. N-(2-methoxyethyl)-4-methyl-2-[(1-{4-[(trifluoromethyl)sulphonyl]benzoyl}piperidin-4-yl)methyl]-2H-indazol-5-carboxamide
56. 4-methyl-2-({1-[4-(pentafluoro- λ^6 -sulphonyl)benzoyl]piperidin-4-yl}methyl)-N-(2,2,2-trifluoroethyl)-2H-indazol-5-carboxamide
- 15 57. 2-{{1-(4-chlorobenzoyl)piperidin-4-yl}methyl}-4-methyl-N-(2,2,2-trifluoroethyl)-2H-indazol-5-carboxamide
58. 4-methyl-N-(2,2,2-trifluoroethyl)-2-({1-[4-(trifluoromethoxy)benzoyl]piperidin-4-yl}methyl)-2H-indazol-5-carboxamide
59. 2-{{1-(4-chlorobenzoyl)piperidin-4-yl}methyl}-N-[2-(cyclopropylmethoxy)ethyl]-4-methyl-2H-indazole-5-carboxamide
- 20 60. N-[2-(cyclopropylmethoxy)ethyl]-4-methyl-2-{{1-(4-methylbenzoyl)piperidin-4-yl}methyl}-2H-indazol-5-carboxamide
61. N-[2-(cyclopropylmethoxy)ethyl]-2-({1-[4-(4-fluorophenoxy)benzoyl]piperidin-4-yl}-methyl)-4-methyl-2H-indazol-5-carboxamide
- 25 62. N-[2-(cyclopropylmethoxy)ethyl]-4-methyl-2-({1-[4-(trifluoromethyl)benzoyl]piperidin-4-yl}methyl)-2H-indazol-5-carboxamide
63. N-[2-(cyclopropylmethoxy)ethyl]-2-({1-[4'-fluorobiphenyl-4-yl]carbonyl]piperidin-4-yl}methyl)-4-methyl-2H-indazol-5-carboxamide
64. 2-{{1-(4-cyclopropylbenzoyl)piperidin-4-yl}methyl}-N-[2-(cyclopropylmethoxy)ethyl]-4-methyl-2H-indazol-5-carboxamide
- 30 65. 2-{{1-(4-chlorobenzoyl)piperidin-4-yl}methyl}-4-methyl-N-[2-(2,2,2-trifluoroethoxy)ethyl]-2H-indazol-5-carboxamide
66. 4-methyl-2-{{1-(4-methylbenzoyl)piperidin-4-yl}methyl}-N-[2-(2,2,2-trifluoroethoxy)ethyl]-2H-indazol-5-carboxamide
- 35 67. 2-({1-[4-(4-fluorophenoxy)benzoyl]piperidin-4-yl}methyl)-4-methyl-N-[2-(2,2,2-trifluoroethoxy)ethyl]-2H-indazol-5-carboxamide

68. 4-methyl-N-[2-(2,2,2-trifluoroethoxy)ethyl]-2-({1-[4-(trifluoromethyl)benzoyl]-piperidin-4-yl} methyl)-2H-indazol-5-carboxamide
69. 2-({1-[(4'-fluorobiphenyl-4-yl)carbonyl]piperidin-4-yl} methyl)-4-methyl-N-[2-(2,2,2-trifluoroethoxy)ethyl]-2H-indazol-5-carboxamide
- 5 70. 2-({1-(4-cyclopropylbenzoyl)piperidin-4-yl} methyl)-4-methyl-N-[2-(2,2,2-trifluoroethoxy)ethyl]-2H-indazol-5-carboxamide
71. 2-({1-(4-chlorobenzoyl)piperidin-4-yl} methyl)-N-(2-isopropoxyethyl)-4-methyl-2H-indazol-5-carboxamide
72. N-(2-isopropoxyethyl)-4-methyl-2-({1-(4-methylbenzoyl)piperidin-4-yl} methyl)-2H-indazol-5-carboxamide
- 10 73. 2-({1-[4-(4-fluorophenoxy)benzoyl]piperidin-4-yl} methyl)-N-(2-isopropoxyethyl)-4-methyl-2H-indazol-5-carboxamide
74. N-(2-isopropoxyethyl)-4-methyl-2-({1-[4-(trifluoromethyl)benzoyl]piperidin-4-yl} methyl)-2H-indazol-5-carboxamide
- 15 75. 2-({1-[(4'-fluorobiphenyl-4-yl)carbonyl]piperidin-4-yl} methyl)-N-(2-isopropoxyethyl)-4-methyl-2H-indazol-5-carboxamide
76. 2-({1-(4-cyclopropylbenzoyl)piperidin-4-yl} methyl)-N-(2-isopropoxyethyl)-4-methyl-2H-indazol-5-carboxamide
77. 2-({1-(4-chlorobenzoyl)piperidin-4-yl} methyl)-4-methyl-N-[2-(trifluoromethoxy)ethyl]-2H-indazol-5-carboxamide
- 20 78. 2-({1-[4-(4-fluorophenoxy)benzoyl]piperidin-4-yl} methyl)-4-methyl-N-[2-(trifluoromethoxy)ethyl]-2H-indazol-5-carboxamide
79. 2-({1-[(4'-fluorobiphenyl-4-yl)carbonyl]piperidin-4-yl} methyl)-4-methyl-N-[2-(trifluoromethoxy)ethyl]-2H-indazol-5-carboxamide
- 25 80. 4-methyl-N-[2-(trifluoromethoxy)ethyl]-2-[(1-{4-[4-(trifluoromethyl)phenoxy]benzoyl}piperidin-4-yl)methyl]-2H-indazol-5-carboxamide
81. N-(2-tert-butoxyethyl)-2-({1-(4-chlorobenzoyl)piperidin-4-yl} methyl)-4-methyl-2H-indazol-5-carboxamide
82. N-(2-tert-butoxyethyl)-2-({1-[4-(4-fluorophenoxy)benzoyl]piperidin-4-yl} methyl)-4-methyl-2H-indazol-5-carboxamide
- 30 83. N-(2-tert-butoxyethyl)-2-({1-[(4'-fluorobiphenyl-4-yl)carbonyl]piperidin-4-yl} methyl)-4-methyl-2H-indazol-5-carboxamide
84. N-(2-tert-butoxyethyl)-4-methyl-2-[(1-{4-[4-(trifluoromethyl)phenoxy]benzoyl}piperidin-4-yl)methyl]-2H-indazol-5-carboxamide
- 35 85. 2-({1-(4-chlorobenzoyl)piperidin-4-yl} methyl)-4-methyl-N-{2-[(²H₃)methyloxy]-(²H₄)ethyl}-2H-indazol-5-carboxamide

86. 2-({1-[4-(4-fluorophenoxy)benzoyl]piperidin-4-yl} methyl)-4-methyl-N-{2-[(²H₃)methyloxy](²H₄)ethyl}-2H-indazol-5-carboxamide
87. 2-{[1-(4-chlorobenzoyl)azetidin-3-yl]methyl}-N-(2-methoxyethyl)-4-methyl-2H-indazol-5-carboxamide
- 5 88. N-(2-methoxyethyl)-4-methyl-2-[(1-{4-[(trifluoromethyl)sulphonyl]benzoyl}azetidin-3-yl)methyl]-2H-indazol-5-carboxamide
89. N-(2-methoxyethyl)-4-methyl-2-({1-[4-(trifluoromethoxy)benzoyl]azetidin-3-yl}-methyl)-2H-indazol-5-carboxamide
90. 2-({1-[2-fluoro-4-(trifluoromethyl)benzoyl]azetidin-3-yl} methyl)-N-(2-methoxyethyl)-4-methyl-2H-indazol-5-carboxamide
- 10 91. 2-{[1-(4-chloro-2-fluorobenzoyl)azetidin-3-yl]methyl}-N-(2-methoxyethyl)-4-methyl-2H-indazol-5-carboxamide
92. 2-({1-[3-fluoro-4-(trifluoromethyl)benzoyl]azetidin-3-yl} methyl)-N-(2-methoxyethyl)-4-methyl-2H-indazol-5-carboxamide
93. 2-({1-[4-chloro-3-(trifluoromethyl)benzoyl]azetidin-3-yl} methyl)-N-(2-methoxyethyl)-4-methyl-2H-indazol-5-carboxamide
- 15 94. 2-{[1-(4-cyclopropylbenzoyl)azetidin-3-yl]methyl}-N-(2-methoxyethyl)-4-methyl-2H-indazol-5-carboxamide
95. N-(2-methoxyethyl)-4-methyl-2-[(1-{4-[4-(trifluoromethyl)phenoxy]benzoyl}azetidin-3-yl)methyl]-2H-indazol-5-carboxamide
- 20 96. 2-{[1-(4-chlorobenzoyl)azetidin-3-yl]methyl}-4-methyl-N-(2,2,2-trifluoroethyl)-2H-indazol-5-carboxamide
97. 4-methyl-N-(2,2,2-trifluoroethyl)-2-({1-[4-(trifluoromethoxy)benzoyl]azetidin-3-yl}-methyl)-2H-indazol-5-carboxamide
- 25 98. 2-({1-[2-fluoro-4-(trifluoromethyl)benzoyl]azetidin-3-yl} methyl)-4-methyl-N-(2,2,2-trifluoroethyl)-2H-indazol-5-carboxamide
99. 4-methyl-2-({1-[4-(pentafluoro- λ^6 -sulphonyl)benzoyl]azetidin-3-yl} methyl)-N-(2,2,2-trifluoroethyl)-2H-indazol-5-carboxamide
100. N-[2-(cyclopropyloxy)ethyl]-4-methyl-2-({1-[4-(trifluoromethoxy)benzoyl]azetidin-3-yl} methyl)-2H-indazol-5-carboxamide
- 30 101. N-[2-(cyclobutyloxy)ethyl]-4-methyl-2-({1-[4-(trifluoromethoxy)benzoyl]azetidin-3-yl} methyl)-2H-indazol-5-carboxamide
102. 2-{[1-(4-chlorobenzoyl)azetidin-3-yl]methyl}-N-[2-(cyclopropylmethoxy)ethyl]-4-methyl-2H-indazol-5-carboxamide
- 35 103. N-[2-(cyclopropylmethoxy)ethyl]-2-({1-[4-(4-fluorophenoxy)benzoyl]azetidin-3-yl}-methyl)-4-methyl-2H-indazol-5-carboxamide

104. N-[2-(cyclopropylmethoxy)ethyl]-4-methyl-2- {[1-(4-methylbenzoyl)azetidin-3-yl]-methyl}-2H-indazol-5-carboxamide
105. 2- {[1-(4-chlorobenzoyl)azetidin-3-yl]methyl}-4-methyl-N-[2-(trifluoromethoxy)ethyl]-2H-indazol-5-carboxamide
- 5 106. N-(2-tert-butoxyethyl)-2- {[1-(4-chlorobenzoyl)azetidin-3-yl]methyl}-4-methyl-2H-indazol-5-carboxamide
107. N-[2-(cyclopropylmethoxy)ethyl]-2- ({1-[(4'-fluorobiphenyl-4-yl)carbonyl]azetidin-3-yl} methyl)-4-methyl-2H-indazol-5-carboxamide
108. 2- ({1-[(4'-fluorobiphenyl-4-yl)carbonyl]azetidin-3-yl} methyl)-N-(2-methoxyethyl)-4-10 methyl-2H-indazol-5-carboxamide
109. 2- ({1-[4-(4-fluorophenoxy)benzoyl]azetidin-3-yl} methyl)-N-(2-methoxyethyl)-4-methyl-2H-indazol-5-carboxamide
110. 2- ({1-[4-(4-fluorophenoxy)benzoyl]azetidin-3-yl} methyl)-4-methyl-N-(2,2,2-trifluoroethyl)-2H-indazol-5-carboxamide
- 15 111. 2- ({1-[(4'-fluorobiphenyl-4-yl)carbonyl]azetidin-3-yl} methyl)-4-methyl-N-(2,2,2-trifluoroethyl)-2H-indazol-5-carboxamide
112. 2- {[1-(4-chlorobenzoyl)azetidin-3-yl]methyl}-4-methyl-N-[2-(2,2,2-trifluoroethoxy)-ethyl]-2H-indazol-5-carboxamide
113. 4-methyl-N-[2-(2,2,2-trifluoroethoxy)ethyl]-2- [(1- {4-[4-(trifluoromethyl)phenoxy]-20 benzoyl} azetidin-3-yl)methyl]-2H-indazol-5-carboxamide
114. 4-methyl-N-(2,2,2-trifluoroethyl)-2- [(1- {4-[4-(trifluoromethyl)phenoxy]benzoyl}-azetidin-3-yl)methyl]-2H-indazol-5-carboxamide
115. 2- ({1-[4-(4-chlorophenoxy)benzoyl]azetidin-3-yl} methyl)-4-methyl-N-(2,2,2-trifluoroethyl)-2H-indazol-5-carboxamide
- 25 116. 2- ({1-[4-(4-chlorophenoxy)benzoyl]azetidin-3-yl} methyl)-N-(2-methoxyethyl)-4-methyl-2H-indazol-5-carboxamide
117. N-(2-methoxyethyl)-4-methyl-2- {[1-(4- {[5-(trifluoromethyl)pyridin-2-yl]oxy} benzoyl)-azetidin-3-yl]methyl}-2H-indazol-5-carboxamide
118. 4-methyl-N-(2,2,2-trifluoroethyl)-2- {[1-(4- {[5-(trifluoromethyl)pyridin-2-yl]oxy} benzoyl)azetidin-3-yl]methyl}-2H-indazol-5-carboxamide30
119. 2- {[1-(4-chlorobenzoyl)piperidin-4-yl]methyl}-N-ethyl-4-methyl-2H-indazol-5-carboxamide
120. 2- ({1-[4-(4-fluorophenoxy)benzoyl]piperidin-4-yl} methyl)-4-methyl-N-(2,2,2-trifluoroethyl)-2H-indazol-5-carboxamide
- 35 121. 2- ({1-[4-(4-chlorophenoxy)benzoyl]piperidin-4-yl} methyl)-4-methyl-N-(2,2,2-trifluoroethyl)-2H-indazol-5-carboxamide

122. 4-methyl-2-({1-[4-(4-methylphenoxy)benzoyl]piperidin-4-yl} methyl)-N-(2,2,2-trifluoroethyl)-2H-indazol-5-carboxamide
123. 2-({1-[(4'-fluorobiphenyl-4-yl)carbonyl]piperidin-4-yl} methyl)-4-methyl-N-(2,2,2-trifluoroethyl)-2H-indazol-5-carboxamide
- 5 124. 4-methyl-2-{{1-(4-morpholinobenzoyl)piperidin-4-yl} methyl}-N-(2,2,2-trifluoroethyl)-2H-indazol-5-carboxamide
125. 4-methyl-N-(2,2,2-trifluoroethyl)-2-[(1-{4-[(trifluoromethyl)sulphonyl]benzoyl}-piperidin-4-yl)methyl]-2H-indazol-5-carboxamide
126. 4-methyl-N-(2,2,2-trifluoroethyl)-2-[(1-{4-[4-(trifluoromethyl)phenoxy]benzoyl}-piperidin-4-yl)methyl]-2H-indazol-5-carboxamide
- 10 127. 4-methyl-N-(2,2,2-trifluoroethyl)-2-{{1-(4-{[5-(trifluoromethyl)pyridin-2-yl]oxy}-benzoyl)piperidin-4-yl} methyl}-2H-indazol-5-carboxamide
128. 4-methyl-N-(2,2,2-trifluoroethyl)-2-{{1-(4-{[6-(trifluoromethyl)pyridin-3-yl]oxy}-benzoyl)piperidin-4-yl} methyl}-2H-indazol-5-carboxamide
- 15 129. 4-methyl-N-(2,2,2-trifluoroethyl)-2-{{1-(4-{[6-(trifluoromethyl)pyridin-2-yl]oxy}-benzoyl)piperidin-4-yl} methyl}-2H-indazol-5-carboxamide
130. 2-({1-[4-(4-cyanophenoxy)benzoyl]piperidin-4-yl} methyl)-4-methyl-N-(2,2,2-trifluoroethyl)-2H-indazol-5-carboxamide
131. 2-({1-[4-(3-fluorophenoxy)benzoyl]piperidin-4-yl} methyl)-4-methyl-N-(2,2,2-trifluoroethyl)-2H-indazol-5-carboxamide
- 20 132. 4-methyl-N-(2,2,2-trifluoroethyl)-2-[(1-{4-[3-(trifluoromethyl)phenoxy]benzoyl}-piperidin-4-yl)methyl]-2H-indazol-5-carboxamide
133. 2-[(1-{4-[(5-cyanopyridin-2-yl)oxy]benzoyl}piperidin-4-yl)methyl]-4-methyl-N-(2,2,2-trifluoroethyl)-2H-indazol-5-carboxamide
- 25 134. 2-[(1-{4-[(5-chloropyridin-2-yl)oxy]benzoyl}piperidin-4-yl)methyl]-4-methyl-N-(2,2,2-trifluoroethyl)-2H-indazol-5-carboxamide
135. 4-methyl-N-(2,2,2-trifluoroethyl)-2-[(1-{4-[5-(trifluoromethyl)pyridin-2-yl]benzoyl}-piperidin-4-yl)methyl]-2H-indazol-5-carboxamide
136. 2-({1-[4-(2,4-difluorophenoxy)benzoyl]piperidin-4-yl} methyl)-4-methyl-N-(2,2,2-trifluoroethyl)-2H-indazol-5-carboxamide
- 30 137. 2-({1-[4-(3,4-difluorophenoxy)benzoyl]piperidin-4-yl} methyl)-4-methyl-N-(2,2,2-trifluoroethyl)-2H-indazol-5-carboxamide
138. 4-methyl-N-(2,2,2-trifluoroethyl)-2-[(1-{4'-(trifluoromethyl)biphenyl-4-yl}carbonyl}-piperidin-4-yl)methyl]-2H-indazol-5-carboxamide
- 35 139. 2-{{1-(4-bromobenzoyl)piperidin-4-yl} methyl}-4-methyl-N-(2,2,2-trifluoroethyl)-2H-indazol-5-carboxamide

140. 2-({1-[4-(5-chloropyridin-2-yl)benzoyl]piperidin-4-yl} methyl)-4-methyl-N-(2,2,2-trifluoroethyl)-2H-indazol-5-carboxamide
141. 2-({1-[(4'-methoxy-2'-methylbiphenyl-4-yl)carbonyl]piperidin-4-yl} methyl)-4-methyl-N-(2,2,2-trifluoroethyl)-2H-indazol-5-carboxamide
- 5 142. 4-methyl-2-({1-[4-(6-methylpyridin-3-yl)benzoyl]piperidin-4-yl} methyl)-N-(2,2,2-trifluoroethyl)-2H-indazol-5-carboxamide
143. 2-({1-[(4'-fluoro-2'-methoxybiphenyl-4-yl)carbonyl]piperidin-4-yl} methyl)-4-methyl-N-(2,2,2-trifluoroethyl)-2H-indazol-5-carboxamide
144. 4-methyl-N-(2,2,2-trifluoroethyl)-2-[(1-{4-[6-(trifluoromethyl)pyridin-3-yl]benzoyl}-piperidin-4-yl)methyl]-2H-indazol-5-carboxamide
- 10 145. 2-({1-[4-(6-methoxypyridin-3-yl)benzoyl]piperidin-4-yl} methyl)-4-methyl-N-(2,2,2-trifluoroethyl)-2H-indazol-5-carboxamide
146. 2-({1-[4-(6-methoxypyridin-2-yl)benzoyl]piperidin-4-yl} methyl)-4-methyl-N-(2,2,2-trifluoroethyl)-2H-indazol-5-carboxamide
- 15 147. 4-methyl-2-({1-[4-(5-methylpyridin-2-yl)benzoyl]piperidin-4-yl} methyl)-N-(2,2,2-trifluoroethyl)-2H-indazol-5-carboxamide
148. 2-({1-[4-(5-fluoropyridin-2-yl)benzoyl]piperidin-4-yl} methyl)-4-methyl-N-(2,2,2-trifluoroethyl)-2H-indazol-5-carboxamide
149. 2-({1-[4-(5-methoxypyridin-2-yl)benzoyl]piperidin-4-yl} methyl)-4-methyl-N-(2,2,2-trifluoroethyl)-2H-indazol-5-carboxamide
- 20 150. 4-methyl-2-({1-[4-(2-methylpyrimidin-5-yl)benzoyl]piperidin-4-yl} methyl)-N-(2,2,2-trifluoroethyl)-2H-indazol-5-carboxamide
151. 4-methyl-N-(2,2,2-trifluoroethyl)-2-[(1-{4-[2-(trifluoromethyl)pyrimidin-5-yl]benzoyl}-piperidin-4-yl)methyl]-2H-indazol-5-carboxamide
- 25 152. 4-methyl-N-(2,2,2-trifluoroethyl)-2-[(1-{4-[6-(trifluoromethyl)pyridin-2-yl]benzoyl}-piperidin-4-yl)methyl]-2H-indazol-5-carboxamide
153. 2-({1-[4-(4-cyanophenoxy)benzoyl]piperidin-4-yl} methyl)-N-(2-methoxyethyl)-4-methyl-2H-indazol-5-carboxamide
154. 2-{[1-(4-bromo-3-methylbenzoyl)piperidin-4-yl]methyl}-N-(2-methoxyethyl)-4-methyl-2H-indazol-5-carboxamide
- 30 155. 2-{[1-(4-tert-butylbenzoyl)piperidin-4-yl]methyl}-N-(2-methoxyethyl)-4-methyl-2H-indazol-5-carboxamide
156. 2-({1-[4-(1-hydroxy-1-methylethyl)benzoyl]piperidin-4-yl} methyl)-N-(2-methoxyethyl)-4-methyl-2H-indazol-5-carboxamide
- 35 157. 2-{[1-(4-cyclohexylbenzoyl)piperidin-4-yl]methyl}-N-(2-methoxyethyl)-4-methyl-2H-indazol-5-carboxamide

158. 2-({1-[4-(1-cyano-1-methylethyl)benzoyl]piperidin-4-yl}methyl)-N-(2-methoxyethyl)-4-methyl-2H-indazol-5-carboxamide
159. N-(2-methoxyethyl)-4-methyl-2-({1-[4-(pyrimidin-2-yloxy)benzoyl]piperidin-4-yl}methyl)-2H-indazol-5-carboxamide
- 5 160. N-(2-methoxyethyl)-4-methyl-2-({1-[4-(3-pyridyloxy)benzoyl]piperidin-4-yl}methyl)-2H-indazol-5-carboxamide
161. N-(2-methoxyethyl)-4-methyl-2-{{1-(4-{[5-(trifluoromethyl)pyridin-2-yl]oxy}benzoyl)-piperidin-4-yl]methyl}-2H-indazol-5-carboxamide
162. N-(2-methoxyethyl)-4-methyl-2-({1-[4-(2-pyridyloxy)benzoyl]piperidin-4-yl}methyl)-2H-indazol-5-carboxamide
- 10 163. N-(2-methoxyethyl)-4-methyl-2-{{1-(4-{[4-(trifluoromethyl)pyrimidin-2-yl]oxy}-benzoyl]piperidin-4-yl]methyl}-2H-indazol-5-carboxamide
164. N-(2-methoxyethyl)-4-methyl-2-{{1-(4-{[6-(trifluoromethyl)pyridin-3-yl]oxy}benzoyl)-piperidin-4-yl]methyl}-2H-indazol-5-carboxamide
- 15 165. N-(2-methoxyethyl)-4-methyl-2-{{1-(4-{[6-(trifluoromethyl)pyridin-2-yl]oxy}benzoyl)-piperidin-4-yl]methyl}-2H-indazol-5-carboxamide
166. 2-({1-[4'-(4-methoxybiphenyl-4-yl)carbonyl]piperidin-4-yl}methyl)-N-(2-methoxyethyl)-4-methyl-2H-indazol-5-carboxamide
167. N-(2-methoxyethyl)-4-methyl-2-({1-[4-(3,4,5,6-tetrahydro-2H-pyran-4-yloxy)benzoyl]-piperidin-4-yl}methyl)-2H-indazol-5-carboxamide
- 20 168. N-(2-methoxyethyl)-4-methyl-2-[(1-{4-[3-(trifluoromethyl)phenoxy]benzoyl}piperidin-4-yl)methyl]-2H-indazol-5-carboxamide
169. 2-[(1-{4-[(5-cyanopyridin-2-yl)oxy]benzoyl}piperidin-4-yl)methyl]-N-(2-methoxyethyl)-4-methyl-2H-indazol-5-carboxamide
- 25 170. 2-[(1-{4-[(5-chloropyridin-2-yl)oxy]benzoyl}piperidin-4-yl)methyl]-N-(2-methoxyethyl)-4-methyl-2H-indazol-5-carboxamide
171. 2-({1-[4-(2,4-difluorophenoxy)benzoyl]piperidin-4-yl}methyl)-N-(2-methoxyethyl)-4-methyl-2H-indazol-5-carboxamide
172. 2-({1-[4-(3,4-difluorophenoxy)benzoyl]piperidin-4-yl}methyl)-N-(2-methoxyethyl)-4-methyl-2H-indazol-5-carboxamide
- 30 173. N-(2-methoxyethyl)-4-methyl-2-[(1-{4'-(trifluoromethyl)biphenyl-4-yl]carbonyl}-piperidin-4-yl)methyl]-2H-indazol-5-carboxamide
174. 2-({1-[4-(3-fluorophenoxy)benzoyl]piperidin-4-yl}methyl)-N-(2-methoxyethyl)-4-methyl-2H-indazol-5-carboxamide
- 35 175. 2-{{1-(2-fluoro-4-isopropoxybenzoyl)piperidin-4-yl]methyl}-N-(2-methoxyethyl)-4-methyl-2H-indazol-5-carboxamide

176. 2-({1-[(3-fluoro-3',4'-dimethylbiphenyl-4-yl)carbonyl]piperidin-4-yl}methyl)-N-(2-methoxyethyl)-4-methyl-2H-indazol-5-carboxamide
177. 2-({1-[(2',3-difluoro-4'-methoxybiphenyl-4-yl)carbonyl]piperidin-4-yl}methyl)-N-(2-methoxyethyl)-4-methyl-2H-indazol-5-carboxamide
- 5 178. 2-({1-[4-(difluoromethoxy)benzoyl]piperidin-4-yl}methyl)-N-(2-methoxyethyl)-4-methyl-2H-indazol-5-carboxamide
179. 2-({1-[4-(2-fluorophenoxy)benzoyl]piperidin-4-yl}methyl)-N-(2-methoxyethyl)-4-methyl-2H-indazol-5-carboxamide
180. 2-({1-[(4'-cyano-2'-methylbiphenyl-4-yl)carbonyl]piperidin-4-yl}methyl)-N-(2-methoxyethyl)-4-methyl-2H-indazol-5-carboxamide
- 10 181. 2-({1-[4-(5-chloropyridin-2-yl)benzoyl]piperidin-4-yl}methyl)-N-(2-methoxyethyl)-4-methyl-2H-indazol-5-carboxamide
182. N-(2-methoxyethyl)-4-methyl-2-[(1-{4-[6-(trifluoromethyl)pyridin-2-yl]benzoyl}-piperidin-4-yl)methyl]-2H-indazol-5-carboxamide
- 15 183. N-(2-methoxyethyl)-2-({1-[(4'-methoxy-2'-methylbiphenyl-4-yl)carbonyl]piperidin-4-yl}methyl)-4-methyl-2H-indazol-5-carboxamide
184. 2-({1-[(4'-chloro-2'-methylbiphenyl-4-yl)carbonyl]piperidin-4-yl}methyl)-N-(2-methoxyethyl)-4-methyl-2H-indazol-5-carboxamide
185. 2-[(1-{4'-(1-cyano-1-methylethyl)biphenyl-4-yl}carbonyl)piperidin-4-yl)methyl]-N-(2-methoxyethyl)-4-methyl-2H-indazol-5-carboxamide
- 20 186. N-(2-methoxyethyl)-2-({1-[4-(5-methoxypyridin-2-yl)benzoyl]piperidin-4-yl}methyl)-4-methyl-2H-indazol-5-carboxamide
187. N-(2-methoxyethyl)-4-methyl-2-[(1-{4-[6-(trifluoromethyl)pyridin-3-yl]benzoyl}-piperidin-4-yl)methyl]-2H-indazol-5-carboxamide
- 25 188. N-(2-methoxyethyl)-2-({1-[4-(6-methoxypyridin-3-yl)benzoyl]piperidin-4-yl}methyl)-4-methyl-2H-indazol-5-carboxamide
189. 2-({1-[(4'-fluoro-2'-methylbiphenyl-4-yl)carbonyl]piperidin-4-yl}methyl)-N-(2-methoxyethyl)-4-methyl-2H-indazol-5-carboxamide
190. N-(2-methoxyethyl)-4-methyl-2-({1-[4-(6-methylpyridin-3-yl)benzoyl]piperidin-4-yl}methyl)-2H-indazol-5-carboxamide
- 30 191. N-(2-methoxyethyl)-2-({1-[4-(6-methoxypyridin-2-yl)benzoyl]piperidin-4-yl}methyl)-4-methyl-2H-indazol-5-carboxamide
192. N-(2-methoxyethyl)-4-methyl-2-({1-[4-(2-methylpyrimidin-5-yl)benzoyl]piperidin-4-yl}methyl)-2H-indazol-5-carboxamide
- 35 193. 2-({1-[(4'-fluoro-2'-methoxybiphenyl-4-yl)carbonyl]piperidin-4-yl}methyl)-N-(2-methoxyethyl)-4-methyl-2H-indazol-5-carboxamide

194. 2-({ 1-[(4'-chloro-2'-methoxybiphenyl-4-yl)carbonyl]piperidin-4-yl} methyl)-N-(2-methoxyethyl)-4-methyl-2H-indazol-5-carboxamide
195. N-(2-methoxyethyl)-4-methyl-2-[(1-{4-[2-(trifluoromethyl)pyrimidin-5-yl]benzoyl}-piperidin-4-yl)methyl]-2H-indazol-5-carboxamide
- 5 196. 2-({ 1-[(4'-chloro-2'-fluorobiphenyl-4-yl)carbonyl]piperidin-4-yl} methyl)-N-(2-methoxyethyl)-4-methyl-2H-indazol-5-carboxamide
197. 2-({ 1-[(2'-chloro-4'-fluorobiphenyl-4-yl)carbonyl]piperidin-4-yl} methyl)-N-(2-methoxyethyl)-4-methyl-2H-indazol-5-carboxamide
198. 2-({ 1-[4-(5-chloropyridin-3-yl)benzoyl]piperidin-4-yl} methyl)-N-(2-methoxyethyl)-4-methyl-2H-indazol-5-carboxamide
- 10 199. 2-({ 1-[4-(5-fluoropyridin-3-yl)benzoyl]piperidin-4-yl} methyl)-N-(2-methoxyethyl)-4-methyl-2H-indazol-5-carboxamide
200. N-(2-methoxyethyl)-4-methyl-2-[(1-{4-[5-(trifluoromethyl)pyridin-3-yl]benzoyl}-piperidin-4-yl)methyl]-2H-indazol-5-carboxamide
- 15 201. 2-[(1-{[4'-(1-hydroxy-1-methylethyl)biphenyl-4-yl]carbonyl}piperidin-4-yl)methyl]-N-(2-methoxyethyl)-4-methyl-2H-indazol-5-carboxamide
202. 2-({ 1-[(3',5'-difluorobiphenyl-4-yl)carbonyl]piperidin-4-yl} methyl)-N-(2-methoxyethyl)-4-methyl-2H-indazol-5-carboxamide
203. 2-({ 1-[(4'-fluoro-2-methylbiphenyl-4-yl)carbonyl]piperidin-4-yl} methyl)-N-(2-methoxyethyl)-4-methyl-2H-indazol-5-carboxamide
- 20 204. 2-({ 1-[(3',5'-difluoro-2-methylbiphenyl-4-yl)carbonyl]piperidin-4-yl} methyl)-N-(2-methoxyethyl)-4-methyl-2H-indazol-5-carboxamide
205. N-(2-methoxyethyl)-4-methyl-2-({ 1-[3-methyl-4-(3-pyridyl)benzoyl]piperidin-4-yl} -methyl)-2H-indazol-5-carboxamide
- 25 206. N-(2-methoxyethyl)-4-methyl-2-({ 1-[3-methyl-4-(4-pyridyl)benzoyl]piperidin-4-yl} -methyl)-2H-indazol-5-carboxamide
207. N-(2-methoxyethyl)-4-methyl-2-({ 1-[(2-methylbiphenyl-4-yl)carbonyl]piperidin-4-yl} -methyl)-2H-indazol-5-carboxamide

30 A subject of the present invention is the use of the compounds according to the invention for the production of drugs which contain at least one of the compounds according to formula I.

Also a subject of the present invention are drugs which contain the compounds according to the invention, with suitable formulation and carrier substances.

Compared to known prostaglandin EP₂ antagonists, the new EP₂ antagonists are characterized by improved properties such as better availability and stability.

A subject of the present invention are drugs for fertility control/contraception and for the treatment and prophylaxis of diseases, which include infectious diseases, cancer, cardiovascular diseases, angiogenic diseases, uterine contraction disorders, pain, inflammatory diseases, neuroinflammatory diseases, neurodegenerative diseases, autoimmune diseases, immuno-dependent diseases/therapies, nephrological diseases and ophthalmological diseases.

10 Infectious diseases should be understood to mean diseases caused by unicellular parasites (e.g. Klebsiella or Streptococcus). With infectious diseases, the drugs can have an immunomodulatory action such that the diseases can be treated prophylactically (diminution of the infection risk, such as for example in bone marrow transplants) or therapeutically. Cancer should be understood to mean solid tumours and leukaemias; viral infections e.g. cytomegalus infections, hepatitis, 15 hepatitis B and C and HIV diseases; cardiovascular diseases ischaemic reperfusion disease, stenoses, arterioscleroses, restenoses, arthritis, Kawasaki syndrome and aneurysms; angiogenic diseases e.g. endometriosis and fibrosis and fibroids in the uterus; uterine contraction disorders e.g. menstrual problems; pain, for example inflammatory hyperalgesia and arthritis, inflammatory diseases, for example inflammatory intestinal diseases; neuroinflammatory and 20 neuro-degenerative diseases e.g. multiple sclerosis, Alzheimer, Parkinson, ALS and stroke; immuno-dependent diseases/therapies e.g. transplants in which immunomodulation increases the therapeutic success; autoimmune diseases for example the ophthalmological disease Graves' disease, and nephrological diseases polycystic kidney diseases and glomerulonephritis.

25 Also a subject of the present invention are drugs for treatment and prophylaxis of the diseases listed above which contain at least one compound according to the general formula I, and drugs with suitable formulation and carrier substances.

For the use of the compounds according to the invention as drugs, these are converted into the form of a pharmaceutical preparation which as well as the active substance contains 30 pharmaceutical, organic or inorganic inert carrier materials suitable for enteral or parenteral administration, such as for example water, gelatine, gum Arabic, lactose, starch, magnesium stearate, talc, plant oils, polyalkylene glycols etc. The pharmaceutical preparations can be in solid form, for example as tablets, coated tablets or capsules, in semisolid form, for example as ointments, creams, gels or suppositories or in liquid form, for example as solutions, suspensions 35 or emulsions.

They optionally contain additives, which are for example intended to function as fillers, binders, disintegrants, lubricants, solvents, solution mediators, masking flavours, colorant, or emulsifiers. Types of additive in the sense of the invention are for example saccharides (mono-, di-, tri-,
5 oligo-, and/or polysaccharides), fats, waxes, oils, hydrocarbons, anionic, nonionic, cationic, natural, synthetic or semisynthetic surfactants. In addition, they optionally contain additives such as preservatives, stabilizers, wetting agents or emulsifiers; salts for alteration of the osmotic pressure or buffers.

These pharmaceutical preparations are also a subject of the present invention.

10

For inhalation, aerosol solutions, or else suitable solid substance preparations for inhalation, are advantageously prepared.

For oral use, tablets, coated tablets or capsules with talc and/or hydrocarbon carriers or binders,
15 such as for example lactose, maize or potato starch are particularly suitable. Use is also possible in liquid form, such as for example as syrup, to which a sweetener is optionally added. Likewise, for the oral use of such compounds, clathrates are also suitable, for example the clathrates with alpha, beta or gamma cyclodextrin or else beta-hydroxypropyl cyclodextrin may be mentioned.

20 For parenteral administration, sterile, injectable, aqueous or oily solutions are used. Injection solutions or suspensions are particularly suitable, in particular aqueous solutions of the active compounds in polyethoxylated castor oil.

For vaginal application, for example suppositories, tampons, gels, foams or intrauterine pessaries
25 are suitable and usual.

For intraarticular injection, suitably prepared crystal suspensions can be used.

For intramuscular injection, aqueous and oily injection solutions or suspensions and
30 corresponding depot preparations can be used.

For rectal application, the new compounds can be used in the form of suppositories, capsules, solutions (e.g. in the form of enemas) and ointments both for systemic and also for local therapy.

35

For pulmonary application of the new compounds, these can be used in the form of aerosols and inhalation formulations.

5 For local use on eyes, external auditory canal, middle ear, nostrils and paranasal sinuses, the new compounds can be used as drops, ointments and tinctures in appropriate pharmaceutical preparations.

For topical application, formulations in gels, ointments, fatty ointments, creams, pastes, powders, milk and tinctures are possible. The dosage of the compounds of the general formula I
10 in these preparations should be 0.01% - 20% in order to achieve an adequate pharmacological action.

The dosage of the active substances can vary depending on the administration route, age and weight of the patient, nature and severity of the disease to be treated and similar factors. The
15 treatment can be effected by single doses or by a large number of doses over a longer period. The daily dose is 0.5 - 1000 mg, preferably 50 - 200 mg, and the dose can be given as a single dose for administration once or subdivided into 2 or more daily doses.

As carrier systems, surface-active additives such as salts of the bile acids or animal or plant
20 phospholipids, but also mixtures thereof and liposomes or components thereof can also be used.

The formulations and presentations described above are also a subject of the present invention.

The administration of the compounds according to the invention can be effected by any
25 conventional method, including oral and parenteral, e.g. by subcutaneous or intramuscular injections, and various inhalation techniques. The enteral, parenteral, vaginal, intrauterine and oral applications are also a subject of the present invention.

The compounds according to the invention of the general formula I bind to the EP₂ receptor and
30 have an antagonistic action. The antagonistic action can be determined by an antagonism test (see Example 1.2.1 of the biological examples).

Antagonists should be understood to mean molecules which bind to their appropriate receptors and which inhibit the initiation of the signal transduction pathway(s) coupled with the receptor
35 through the naturally occurring ligand(s). Normally, the antagonists compete with the naturally occurring ligand of the receptors for the binding to the receptor. However, other modifications of

the receptor by molecules which prevent the signal transduction pathways coupled with the receptor from being activated by the naturally occurring ligand(s) are also possible (e.g. non-competitive, steric modifications of the receptor).

- 5 More preferably, the antagonists bind reversibly to their corresponding receptors.

The EP₂ receptor antagonist has a preferential affinity for the EP₂ receptor compared to any other EP receptor. The antagonism is measured in the presence of the natural agonist (PGE₂).

- 10 For the determination of the selectivity, the action of the EP₂ antagonist on a human EP₄ receptor (Example 2.2.1) or PGD receptor (Example 3.2.1) can be determined (Table 1).

Furthermore, the substances according to the invention are more stable *in vivo* than the EP₂ receptor antagonists which are described in the closest state of the art (DE 10 2009 049 662 A1), and this results in higher half-lives (see Table 3).

- 15 Also a subject of the present invention is the use of the substances according to the invention as EP₂ receptor antagonists for the treatment of diseases which are caused by disorders in the signal transduction chain in which the EP₂ receptor is involved, such as for example pain and fertility disorders. The EP₂ receptor antagonists are also suitable for fertility control.

- 20 In the pre-ovulatory antral follicle, the oocyte is surrounded by cumulus cells which form a dense cell crown around the oocyte. After the peak of the luteinizing hormone (LH peak), a series of processes is activated, which results in a marked morphological change in this cell crown of cumulus cells. During this, the cumulus cells form an extracellular matrix, which leads to the so-called cumulus expansion (Vanderhyden *et al.* 1990, Dev Biol., Aug;140(2):307-317).

- 25 This cumulus expansion is an important component of the ovulatory process and the subsequent possibility of fertilization.

- During the cumulus expansion, prostaglandins and here prostaglandin E₂, synthesis whereof is induced by the LH peak, are of decisive importance. Prostanoid EP₂ knockout mice (Hizaki *et al.*, 1999, Proc Natl Acad Sci U S A., Aug 31;96(18):10501-6.) show a markedly decreased cumulus expansion and severe subfertility, which demonstrates the importance of the prostanoid EP₂ receptors for this process.

- 30 The action of an EP₂ antagonist on cumulus expansion can be measured in a cumulus expansion test (see Example 4.2).

- 35 The substances according to the invention have inhibitory effects in cumulus expansion tests and an influence on the fertilizability of ovulated cumulus-oocyte complexes (see Example 4.3 and

Table 4). The substances according to the invention have a contraceptive effect in non-human primates (*Cynomolgus*), where they cause a markedly decreased pregnancy rate without having an influence on the cycle (length of the cycle and hormones) (see Example 4.4 and Table 5). This for the first time shows a contraceptive effect of EP₂ receptor antagonists in non-human primates. This effect is based on non-hormonal mechanisms, which demonstrates the possibility of hormone-free contraception with the substances according to the invention.

A subject of the present invention is the use of the substances according to the invention for fertility control.

While the EP₂ receptor antagonist AH6809 first suppresses the expansion of the cumulus, by only ca. 30%, at a concentration of 100 - 200 µM, in the presence of the substance according to the invention according to Example 17 a ca. 70% suppression of the cumulus expansion can already be attained at a 100-200 times lower concentration (0.5 µM; IC₅₀: 3.4 nM, see Table 1). In these experiments, the test substances compete with the natural EP₂ receptor agonist PGE₂ (0.3 µM).

By administration of the substance of example 62 from the application DE 10 2009 049 662 A1, a ca. 70% suppression of the cumulus expansion can likewise be achieved, however for this a concentration of 10 µM is necessary, which represents a 10-20 times lower concentration in comparison to AH6809. However, this is markedly higher than the concentration of 0.5 µM for Example 17 from the present invention (see Table 2).

Example 17 according to the invention from the present invention is also characterized by a better terminal half-life. While example 62 from the application DE 10 2009 049 662 A1 has a t_{1/2} of 0.4 hours, for Example 17 this is 2.5 hours (see Table 3).

Accordingly substance 17 of the present invention is markedly superior to this compound known from the state of the art.

A subject of the present invention is the use of the substances according to the invention for the inhibition of cumulus expansion and thereby of ovulation and fertilization for contraception.

A particular form of contraception is emergency protection (also known as "morning-after pill"). This should be understood to mean the taking of one or more substances which is intended to prevent a possible pregnancy after unprotected sexual intercourse and in the event of a presumable failure of the protective method.

A subject of the present invention is the use of the substances according to the invention for emergency protection.

Also a subject of the present invention is the use of the substances according to the invention as
5 EP₂ receptor antagonists for the prophylaxis and direct treatment of diseases which are causally linked with the EP₂ receptor or of diseases which can be treated by influencing the EP₂ receptor.

Prostaglandins play an important part in angiogenesis (Sales, Jabbour, 2003, Reproduction 126, 559 – 567; Kuwano *et al.*, 2004, FASEB J. 18, 300–310; Kamiyama *et al.*, 2006, Oncogene 25,
10 7019–7028; Chang *et al.*, 2005, prostaglandins & other Lipid Mediators 76, 48–58).

Endometriosis is a chronic disease wherein inflammatory, immunomodulatory and angiogenic processes are involved. Together with other factors, prostaglandins and here in particular the PGE₂ and the EP₂ receptor are of particular importance (Banu *et al.*, 2009, Molecular Endocrinology 23: 1291–1305; Bulun 2009, N Engl J Med; 360, 268-279).

15 Circa 10% of women suffer regularly from severe bleeding during menstruation, caused by changes in the blood vessels of the endometrium. Additionally, structural differences in the blood vessels have been observed, such as for example the incomplete formation of the smooth muscle layer (Abberton *et al.*, 1999, Hum. Reprod. 14, 1072-1079, Rogers *et al.* 2003, Microsc Res Tech. 60(4), 412-419). Since the blood loss during menstruation is partly regulated by the
20 constriction of the blood vessels, it is obvious that the defects in the smooth musculature contribute substantially to the bleeding.

A subject of the present invention is the use of the substances of the general formula I for the prophylaxis and treatment of endometriosis.

25

Prostaglandins play an important part in uterine contraction, and excessively strong contractions are responsible for menstrual problems (Sales, Jabbour, 2003, Reproduction 126, 559 – 567). Prostaglandins and here especially the EP₂ and the EP₄ receptor have been linked with severe menstrual bleeding (Smith *et al.*, 2007 (Human Reproduction, Vol.22, No.5 pp. 1450–1456).

30

A subject of the present invention is the use of the substances of the general formula I for the prophylaxis and treatment of menstrual problems and severe menstrual bleeding and pains during menstruation.

35 Fibroids (myomas) are benign tumours in the uterus with a high dissemination rate. Via the stimulation of aromatase by a PGE₂/cAMP-mediated signal pathway, and by other possible

mechanisms, there is a link to the prostaglandin metabolism (Imir *et al.*, 2007, J Clin Endocrinol Metab 92, 1979–1982).

5 A subject of the present invention is the use of the substances of the general formula I for the prophylaxis and treatment of fibroids (myomas).

10 An increasing number of research results also confirm the importance of the EP receptors, and in particular also of the EP₂ receptor in a large number of cancer types (e.g. breast cancer, colon carcinoma, lung cancer, prostate cancer, leukaemia and skin cancer), which points to future possibilities for the use of modulators (antagonists or agonists) of the EP₂ receptor for the therapy and prevention (prophylactic and/or adjuvant) of cancer (Fulton *et al.*, 2006, Cancer Res; 66(20): 9794-7; Castellone *et al.*, 2005, Science Vol 310, 1504-1510; Chang *et al.*, 2005, Cancer Res; 65(11): 4496-9; Hull *et al.*, 2004, Mol Cancer Ther; 3(8):1031–9; Richards *et al.*, 2003, J Clin Endocrinol Metab 88: 2810–2816; Sinha *et al.*, 2007, Cancer Res; 67(9): 4507–13; Wang
15 *et al.*, 2004, Seminars in Oncology, Vol 31, No 1, Suppl 3: pp 64-73), Yu *et al.*, 2008; JPET Published on June 26, as DOI:10.1124/jpet.108.141275, Denizot *et al.*, 2005, Int. J. Cancer: 115, 499–501; Fiancette *et al.*, 2011, J Oncol. pii: 389021, Chun *et al.*, 2011, Mol Carcinog. 50(6):439-48).

20 A subject of the present invention is the use of the substances of the general formula I for the treatment and prevention of cancer diseases.

The activation of endothelial cells plays an important part in the pathogenic process of arteriosclerosis. Here oxidation products of low density lipoprotein (LDL) are significant in the
25 onset and development of arteriosclerotic diseases. More recent researches indicate involvement of the EP₂ receptor (Li *et al.*, 2006; Circ Res. 98:642-650).

A subject of the present invention is the use of the substances of the general formula I for the treatment and prevention of arteriosclerosis.

30

More recent scientific publications show that in neurodegenerative, neuroinflammatory and ischaemic diseases (Alzheimer, Parkinson, ALS and stroke), prostaglandins and the EP₂ receptor are important components of the pathological process (Hoshino *et al.*, 2007, J Biol Chem.; 282(45): 32676-88; Liang *et al.*, 2005, The Journal of Neuroscience; 25(44): 10180 –10187; Jin
35 *et al.*, 2007, J Neuroinflammation. Jan 4;4:2.; Liang *et al.*, 2008, Ann Neurol; 64: 304–314; Cimino *et al.*, 2008, Current Medicinal Chemistry, 1863-1869).

Multiple sclerosis is a chronic inflammation of the nervous system. Prostaglandins, especially PGE₂, and effects mediated via the EP₂ receptor are causally linked with the pathological processes in multiple sclerosis (Palumbo *et al.*, 2011, Prostaglandins, Leukotrienes and Essential Fatty Acids 85: 29–35; Palumbo *et al.*, 2011, J. Neurochem. 10.1111/j.1471-4159, Kihara *et al.*, 5 2009, Proc Natl Acad Sci U. S. A, 106, No. 51: 21807–21812).

A subject of the present invention is the use of the substances of the general formula I for the treatment and prevention of neurodegenerative, neuroinflammatory and ischaemic diseases such as for example Alzheimer's, Parkinson's, ALS and stroke and for the treatment of multiple 10 sclerosis.

Polycystic kidney diseases are also linked with the EP₂ receptor (Song *et al.*, 2009, Human Molecular Genetics, 18, No. 13: 2328–2343; Elberg *et al.*, 2007, Am J Physiol Renal Physiol 293: F1622–F1632.)

15 A subject of the present invention is the use of the substances of the general formula I for the treatment and prevention of polycystic kidney diseases.

Reinold *et al.* (J. Clin. Invest. 115, 673-679 (2005)) describe PGE₂ receptors of the EP₂ subtype as the key signal elements in inflammatory hyperalgesia. Mice which no longer carry this 20 receptor (EP₂^{-/-}) feel no spinal inflammatory pain. There are indications that an inflammatory, increased sensitivity to pain can be treated by specifically modulating EP₂ receptors. Furthermore, the EP₂ receptor is linked with other types of pain (Zeilhofer, 2007, Biochemical Pharmacology 73; 165– 174), inter alia in facial nerves (Patwardhan *et al.* (J Dent Res 87(3):262-266, 2008)).

25 A subject of the present invention is the use of the substances according to the invention for the treatment and prevention of pain of various origins such as for example inflammatory hyperalgesia.

30 Recent scientific publications refer to a use of EP₂ inhibitors for the prevention and/or treatment of infections of the respiratory tract. Serezani *et al.* (Am Respir Cell Mol Biol Vol 37. pp 562-570, 2007) states that the ability of macrophages of the respiratory tract to destroy bacteria is impaired via the activation of the EP₂ receptor by PGE₂. Bacterial infections lead to increased production of prostaglandins, inter alia PGE₂, which via this mechanism weakens the 35 endogenous defence against bacteria. As shown in this publication, this ability to combat bacteria can be restored by inactivation of the EP₂ receptor (and of the EP₄ receptor). Further

relevant publications which explain these connections are: Sadikot *et al.*, 2007, Eur. J. Immunol. 37: 1001–1009; Aronoff *et al.*, 2004, The Journal of Immunology, 173: 559–565 and Medeiros *et al.*, 2009, J Exp Med. 206(1):61-68.

- 5 A subject of the present invention is the use of the substances according to the invention for the prevention and treatment of infectious diseases of the lung.

Fibroblasts and here in particular their functions in the restoration of damaged tissue play a decisive part in chronic obstructive pulmonary disease. During this, an excess of PGE₂
10 suppresses important repair functions of the fibroblasts (Togo *et al.*, 2008, Am J Respir Crit Care Med, 178: 248–260).

A subject of the present invention is the use of the substances according to the invention for prophylaxis and treatment in chronic obstructive pulmonary diseases.

15

Intestinal inflammatory diseases (e.g. Crohn's disease) are also linked with the prostaglandin EP₂ receptor (Sheibanie *et al.*, 2007, The Journal of Immunology, 178: 8138–8147).

- 20 A subject of the present invention is the use of the substances according to the invention for the prevention and treatment of intestinal inflammatory diseases.

During bone marrow transplantation, complications often occur through infections, wherein an overproduction of PGE₂ is linked with decreased immune defence (Ballinger *et al.*, 2006, The Journal of Immunology, 177: 5499–5508).

25

A subject of the present invention is the use of the substances according to the invention for prophylaxis and treatment in bone marrow transplantation.

- 30 Graves' disease is an autoimmune disease of the thyroid, in which the clinical picture can also include pathological changes in the eye (endocrine orbitopathy; protrusion of the eyeballs (exophthalmus)). During this, invading lymphocytes activate fibroblasts that are present, which leads inter alia to an accumulation of mucopolysaccharides. Possible consequences are impairment of the vision even extending to blindness. Studies show that interleukin-6 is of decisive importance for the pathological mechanisms and that interleukin-6 is induced via PGE₂
35 and the EP₂ receptor (Raychaudhuri *et al.*, 2010, PloS ONE, 5: e15296; Wang *et al.*, 1995, J Clin Endocrinol Metab 80: 3553-3560).

A subject of the present invention is the use of the substances according to the invention for prophylaxis and treatment in orbitopathy in connection with Graves' disease or other pathological diseases of the eye.

5

Aneurysms are vascular dilations with the risk of leading with vascular ruptures to haemorrhages with grave and life-threatening effects, e.g. paralysis, loss or impairment of speech, cognitive limitations and other neurological consequences in case of cerebral haemorrhages. Even without ruptures, cerebral aneurysms can cause severe neurological symptoms through the pressure on
10 nerve fibres. Cerebral aneurysms are found in about 1 – 5% of the population, there being a higher incidence in women. Ruptures of aneurysms in the peripheral blood vessels involve a high risk of thromboses, cardiac infarctions, pain and a number of other clinical pictures. Pharmacological therapies mainly comprise the limitation of risk factors such as hypertension. Recent scientific studies were able to show that the EP₂ receptor plays a substantial part in the
15 pathogenesis of cerebral aneurysms. In this, via the cascade COX-2 – PGE₂ – EP₂- NF-κ-β an inflammatory state is created which is causally involved in aneurysm formation (Aoki *et al.*, 2011, British Journal of Pharmacology 163: 1237–1249; Aoki *et al.* 2007, 116:2830-2840).

A subject of the present invention is the use of the substances according to the invention for the
20 prophylaxis and treatment of aneurysms.

Kawasaki syndrome is an acute, systemic feverish disease, by which children under 5 years are predominantly affected. Long-term damage can include changes in the blood vessels, in particular the coronary blood vessels (e.g. formation of aneurysms) and diseases connected
25 therewith such as cardiac rhythm disorders and cardiac infarction. The incidence differs regionally, thus for example 185 out of 100000 children under 5 years in Japan and about 9 out of 100000 children in Germany. Prostaglandin E₂ is elevated in the acute phase of the disease (Lee *et al.*, 1988, Prostaglandins Leukot Essent Fatty Acids, 31(2):53-57). Through recent research studies it could be shown that β₁ integrin is activated by PGE₂ and mediated via the EP₂
30 receptor, which is causally linked with the vascular damage (Kajimoto *et al.*, 2009, Inflamm. Res. 58: 224–228).

A subject of the present invention is the use of the substances according to the invention for the prophylaxis and treatment of Kawasaki syndrome, in particular also for the prevention and
35 avoidance of vascular damage.

Recent researches show that the EP₂ receptor has an important role in arthritis and here exerts an influence on the pathogenesis of this disease via immunomodulatory mechanisms (Harizi *et al.*, 2010, Immunology and Cell Biology, 1–8).

- 5 A subject of the present invention is the use of the substances according to the invention for the prophylaxis and treatment of arthritis.

10 The natural ligand (agonist) of the EP₂ receptor is PGE₂, the synthesis whereof is mediated via cyclooxygenases (COX) enzymes (COX-1, COX-2). These enzymes are mostly involved in the said clinical pictures and indications and the onset thereof via increased expression and activity. Hence in all the use possibilities mentioned, a combination of a COX inhibitor (COX-2 and/or COX-1) is possible, with the aim of

- 15 a) achieving a higher and more effective pharmacological activity than with one substance class and
b) enabling a lower dosage of one of the two or of both substance classes, which leads to a reduction of possible side effects and better tolerance.

Hence drugs containing a compound of the general formula (I) in combination with a COX
20 inhibitor for the treatment of diseases (combination preparations) are also a subject of the present invention. As COX inhibitors, for example the non-selective COX inhibitors such as aspirin, naproxen, indomethacin, ibuprofen and the selective COX inhibitors meloxicam, ketoprofen, piroxicam, tenoxicam, nimesulide, mefenamic acid, ketoralac, celecoxib (4-[5-(4-methylphenyl)-3-(trifluoromethyl)-1H-pyrazol-1-yl]benzenesulphonamide) parecoxib (N-[4-(5-methyl-3-phenyl-4-isoxazolyl)phenyl]sulphonylpropionamide),
25 rofecoxib (4-(4-mesylphenyl)-3-phenyl-furan-2(5H)-one), valdecoxib (4-[5-methyl-3-phenyl-4-isoxazolyl]benzenesulphonamide), NS-398 (N-methyl-2-cyclohexanoxo-4-nitrobenzenesulphonamide), lumiracoxib [2-(2'-chloro-6'-fluoro-phenyl)-amino-5-methylbenzeneacetic acid], ceracoxib and etoricoxib may be mentioned.

30 These combination preparations can be used for the treatment of the following diseases: infectious diseases, cancer, cardiovascular diseases, angiogenic diseases, uterine contraction disorders, pain, inflammatory diseases, neuroinflammatory diseases, neurodegenerative diseases, autoimmune diseases, immunodependent diseases/therapies, nephrological diseases and ophthalmological diseases.

35 They can also be used for fertility control.

In addition, the invention relates to a process for the production of the compounds according to the invention of the general formula I.

For this, for example a carboxylic acid of the formula VIII is reacted with an amine of the general formula XI by methods known to those skilled in the art to give the compounds according to the invention of the general formula I (Scheme 1).

The reaction takes place in that for example a carboxylic acid of the formula VIII is converted with isobutyl chloroformate in the presence of a tertiary amine, for example triethylamine, into a mixed anhydride, which reacts with an alkali metal salt of the appropriate amine XI in an inert solvent or solvent mixture, for example tetrahydrofuran, N,N-dimethylformamide or dimethoxyethane at temperatures between -30°C and +60°C to give the target compounds of the formula I.

It is also possible to activate a carboxylic acid VIII with reagents such as for example dicyclohexylcarbodiimide (DCC), 1-(3-dimethylaminopropyl)-3-ethylcarbodiimide (EDCI), N-hydroxybenzotriazole (HOBT) or N-[(dimethylamino)-(3H-[1,2,3]triazolo[4,5-b]pyridin-3-yl)oxy)methylidene]-N-methylmethanaminium hexafluorophosphate (HATU). For example the reaction with HATU takes place in an inert solvent, for example N,N-dimethylformamide or dimethyl sulphoxide in the presence of the appropriate amine XI and a tertiary amine, for example triethylamine or diisopropylamine, at temperatures between -30°C and +60°C.

It is also possible, to convert a carboxylic acid of the formula VIII into the corresponding carboxylic acid chloride with an inorganic acid chloride, for example phosphorus pentachloride, phosphorus trichloride or thionyl chloride and then into the target compounds of the general formula I in pyridine or an inert solvent, such as for example N,N-dimethylformamide, in the presence of the appropriate amine XI and a tertiary amine, for example triethylamine, at temperatures between -30°C and +60°C.

The compounds according to the invention of the general formula I can also be obtained from bromoindazoles of the general formula VI under palladium(0) catalysis by reaction with an appropriate amine XI and carbon monoxide (CO) or a carbon monoxide source, such as for example molybdenum hexacarbonyl in a suitable solvent or solvent mixture, for example 1,4-dioxan/water or tetrahydrofuran, addition of a base such as for example sodium carbonate or 1,8-diazabicyclo(5.4.0)undec-7-ene (DBU) and a catalyst-ligand mixture, for example palladium(II) acetate or trans bis(acetato)bis[o-(di-o-tolylphosphino)benzyl]-dipalladium(II) / tri-tert-butylphosphinotetrafluoroborate at temperatures between 80°C and 160°C (optionally with microwave irradiation between 80-200 watts), and in case of the use of carbon monoxide at a CO pressure of 5-15 bar (Scheme 1).

The compounds according to the invention of the general formula I can also be obtained from amines of the general formula XV by reaction with carboxylic acids ($Y = OH$), chlorides ($Y = Cl$) or anhydrides (e.g. $Y = O-C(O)-O-CH_2(CH)_3CH_3$) of the formula IX in the manner described for the production of the compounds I from the compounds VIII and XI (Scheme 2).

5

Likewise, the compounds of the general formula I can be obtained from compounds of the general formula XVI, wherein LG' for example means Br or I, by reaction with compounds of the formula XVIII (Scheme 2).

Compounds of the formula XVIII are for example (Het)Arylboronic acids ($R^3\text{-Met} = (\text{Het})\text{Ar-B(OH)}_2$) or boronic acid pinacol esters ($R^3\text{-Met} = (\text{Het})\text{Ar-BPin}$), which are converted to biaryl compounds of the formula I by methods known to those skilled in the art in a suitable solvent, for example N,N-dimethylformamide, tetrahydrofuran, dimethoxyethane and optionally water and addition of a base, for example triethylamine, potassium carbonate, caesium carbonate and a catalyst-ligand mixture, for example of palladium(II) acetate / triphenylphosphine, bis(diphenylphosphino)ferrocenedichloropalladium (II) (/ 1,1'-bis(diphenylphosphino)ferrocene/
15 Cu(I)Cl) at temperatures between 20°C and 120°C.

Compounds of the formula XVIII can also be (Het)Aryl alcohols ($R^3\text{-Met} = (\text{Het})\text{ArO-H}$), which are converted into biaryl ethers of the formula I by methods known to those skilled in the art in a suitable solvent, for example N,N-dimethylformamide or dimethyl sulphoxide with addition of a
20 base, for example potassium carbonate, caesium carbonate under copper-(I) catalysis e.g. with copper(I) bromide at temperatures between 60°C and 120°C.

The carboxylic acids of the general formula VIII can for example be obtained from esters of the formula VII by ester saponification in a suitable solvent or solvent mixture, for example
25 methanol, ethanol or tetrahydrofuran, water with addition of an aqueous solution of an alkali metal hydroxide, for example sodium hydroxide or lithium hydroxide at temperatures between 20°C and 60°C (Scheme 1).

In the same manner, the carboxylic acids XIII can be obtained from the esters XII (Scheme 2, PG: e.g. Boc (tert-butyloxycarbonyl) and the carboxylic acids XXI from the esters XX (Scheme
30 3, LG': e.g. Br or I).

The esters of the general formula VII can be obtained from bromindazoles of the general formula VI under palladium(0) catalysis by reaction with carbon monoxide or a carbon monoxide source, such as for example molybdenum hexacarbonyl, and methanol in a suitable
35 solvent, for example dimethyl sulphoxide, N,N-dimethylformamide or tetrahydrofuran and addition of a base, for example triethylamine or 1,8-diazabicyclo(5.4.0)undec-7-ene and a

catalyst-ligand mixture, for example of palladium(II) acetate / bis-1,3-diphenylphosphino-propane or trans bis(acetato)bis[o-(di-o-tolylphosphino)benzyl]dipalladium(II) / tri-tert-butylphosphinotetrafluoroborate at temperatures between 20°C and 140°C (optionally with microwave irradiation between 80 - 200 watts), and in case of the use of carbon monoxide at a CO pressure of 5 – 15 bar (Scheme 1).

This method is not restricted to methyl esters, i.e. to the use of methanol, but can also be extended to other esters. Thus for example by use of ethanol instead of methanol in this manner, the corresponding ethyl esters can be synthesized.

In the same manner, the esters XII can be obtained from the bromides IV (Scheme 2, -PG: e.g. -Boc).

The amides of the general formula VII can also be obtained from the amines of the general formula XIX by reaction with compounds of the general formula IX (Scheme 3), analogously to the synthesis of the compounds I from the compounds XV (Scheme 2).

The compounds of the general formula VII can also be obtained from compounds of the formula XX and reaction with compounds of the formula XVIII (Scheme 3), analogously to the described conversion of the compounds XVI to the compounds of the formula I (Scheme 2).

The amides of the general formula VI can be obtained from amines of the general formula V by reaction with carboxylic acids (Y = OH), chlorides (Y = Cl) or anhydrides (e.g. Y = O-C(O)-O-CH₂(CH)₃CH₃) of the formula IX (Scheme 1), as described for the conversion of amines XV to amides I (Scheme 2).

The amides of the general formula XVI can be obtained in analogous manner from amines XV and carboxylic acids or carboxylic acid derivatives XVII (Y: e.g. OH, Cl or O-C(O)-O-CH₂(CH)₃CH₃; LG': e.g. Br or I) (Scheme 2).

Analogously, amines XX (LG': e.g. Br or I) can be obtained from amines XIX and carboxylic acids or carboxylic acid derivatives XVII (Y: e.g. OH, Cl or O-C(O)-O-CH₂(CH)₃CH₃; LG': e.g. Br or I) (Scheme 3).

Likewise, carboxylic acids XIII (PG: e.g. Boc) can be converted with amines XI to amides XIV (Scheme 2) and carboxylic acids XXI (LG': e.g. Br, I) with amines XI to amides XVI (Scheme 3) in this manner.

The secondary amines V can be obtained from the corresponding carbamates IV (PG: e.g. Boc) by methods known to those skilled in the art (Scheme 1).

Thus for example tert-butyl carbamates can be converted into the amines V in an acidic medium with the use of e.g. trifluoroacetic acid or hydrochloric acid in a suitable solvent or solvent mixture such as for example dichloromethane, dioxan or acetone/water. In an anhydrous medium the amines V are formed as the corresponding salts.

- 5 Analogously, the amines XV can be obtained from the carbamates XIV (Scheme 2) and the amines XIX from the carbamates XII (Scheme 3).

The 2*H*-indazoles of the general formulae IV and VI can be produced in various ways.

- 10 For example, 2*H*-indazoles IV can be obtained from 1*H*-indazoles of the general formula II by alkylation with compounds of the general formula III (PG: e.g. Boc, LG: e.g. Br, I, O-Ts (tosyloxy) or O-Ms (mesyloxy)) in a suitable solvent, for example N,N-dimethylformamide, N,N-dimethylacetamide, dimethyl sulphoxide or else THF, 1,4-dioxan and addition of a base such as for example potassium carbonate or caesium carbonate (optionally with addition of
15 tetrabutylammonium iodide) or else sodium bis(trimethylsilyl)amide, at temperatures between 25°C and 100°C or else in case of the use of sodium bis(trimethylsilyl)amide 0°C and 25°C (Scheme 1).

- Analogously the 2*H*-indazoles of the general formula VI can be obtained from 1*H*-indazoles of the general formula II and compounds of the general formula X (LG: e.g. Br, I, O-Ts or
20 O-Ms) (Scheme 1).

- The 2*H*-indazoles of the general formula IV can also be obtained from ortho-nitrobenzaldehydes of the general formula XXVII by reaction with an appropriate amine XXVIII (PG: e.g. Boc) in a suitable solvent, for example 1,4-dioxan and addition of a reducing agent such as for example
25 triethyl phosphite, possibly with addition of potassium carbonate or caesium carbonate or powdered molecular sieve, at temperatures between 100°C and 160°C (Scheme 4).

Analogously, the 2*H*-indazoles of the general formula VI can be obtained from ortho-nitrobenzaldehydes XXVII by reaction with amines XXIX (Scheme 4).

- 30 The compounds of the general formula XIV (PG: e.g. Boc) can also be obtained from bromo-indazoles of the general formula IV (PG: e.g. Boc) under palladium(0) catalysis by reaction with an appropriate amine XI and carbon monoxide or a carbon monoxide source, such as for example molybdenum hexacarbonyl (Scheme 2), analogously to the described process for the conversion of the bromoindazoles VI to the compounds of the general formula I, (Scheme 1).

The ortho-nitrobenzaldehydes of the general formula XXVII can be produced from the ortho-nitrotoluenes of the general formula XXVI by methods known to those skilled in the art in two reaction steps (Scheme 4).

For this, an ortho-nitrotoluene XXVI is dissolved in a suitable solvent such as N,N-dimethyl-
5 formamide and converted with N,N-dimethylformamide dimethyl acetal at temperatures of 100 – 140°C to the corresponding enamine, which is immediately oxidized at temperatures of 0°C – 20°C to the corresponding ortho-nitrobenzaldehyde with a suitable oxidizing agent such as for example NaIO₄ in a suitable aqueous solvent mixture such as water/N,N-dimethylformamide and optionally with addition of a base such as for example triethylamine, N,N-diisopropyl-
10 ethylamine, sodium hydrogen carbonate or sodium carbonate.

The ortho-nitrotoluenes of the general formula XXVI can be produced from the ortho-methylanilines of the general formula XXV by methods known to those skilled in the art (Scheme 4).

15 For this, an ortho-methylaniline XXV is dissolved in a suitable solvent such as dichloromethane or chloroform, treated with zirconium(IV) tert-butoxide, ground molecular sieve 3Å and tert-butyl hydroperoxide and reacted at temperatures of 20-40°C.

The *1H*-indazoles of the general formula II can be liberated from the acetamides of the general
20 formula XXIV by methods known to those skilled in the art (Scheme 4).

For this, for example an acetamide XXIV is reacted in a suitable solvent such as methanol or ethanol and addition of 37% hydrochloric acid at temperatures of 40 – 80°C.

Analogously thereto, the anilines of the formula XXV can be liberated from the acetanilides of the formula XXIII (Scheme 4).

25

The acetamides of the general formula XXIV can be produced from the ortho-methyl-acetanilides of the general formula XXIII by methods known to those skilled in the art (Scheme 4).

For this, the ortho-methyl-acetanilides XXIII are dissolved in a suitable solvent such as
30 chloroform or toluene, treated with acetic anhydride, isopentyl or tert-butyl nitrite, and optionally potassium acetate and 18-crown-6, and reacted at temperatures of 60 – 100°C.

The ortho-methyl-acetanilides XXIII can be produced from the acetanilides of the general formula XXII by bromination by methods known to those skilled in the art (Scheme 4).

For this, the acetanilides XXII, which can for example be obtained from the corresponding anilines by reaction with acetic anhydride in a suitable solvent (e.g. toluene) at temperatures of 80-110°C, is reacted with bromine in glacial acetic acid at temperatures of 10-25°C.

- 5 The compounds of the general formula III wherein LG means -OTs or -OMs can be produced by methods known to those skilled in the art from the corresponding alcohols.

For this, the alcohols are reacted with p-toluenesulphonyl chloride or methanesulphonyl chloride at temperatures between 0°C and 40°C in a suitable solvent, e.g. dichloromethane or tetrahydrofuran or toluene and addition of a suitable base, e.g. pyridine or triethylamine.

10

The compounds of the general formula X, wherein LG means -OTs or -OMs, can be produced from the corresponding amino alcohols XXX by methods known to those skilled in the art (Scheme 4).

- For this, in a first step the amino alcohols XXX are converted to the corresponding amides
15 XXXI in a suitable solvent, e.g. dichloromethane, with arylcarboxylic acid chlorides of the formula Cl-C(O)-Ar-R^3 and addition of a suitable base, e.g. triethylamine, at temperatures between 0°C and 25°C. Optionally, corresponding esters formed as by-products can be separated or else saponified to the corresponding alcohols XXXI under standard conditions, e.g. with use of a base, e.g. potassium hydroxide, in a suitable solvent mixture, e.g. ethanol/water, at
20 temperatures between 20°C and 40°C

- The N-protected alcohols XXXI thus obtained can be converted into the compounds of the formula X with LG: -OTs or -OMs analogously to the process described for the synthesis of the compounds III. Compounds of the formula X with LG: -Br can be obtained from the corresponding alcohols XXXI by methods known to those skilled in the art by reaction with a
25 brominating agent such as for example CBr_4 with addition of PPh_3 as an oxophile in a suitable solvent, e.g. chloroform, at temperatures between 20°C and 40°C.

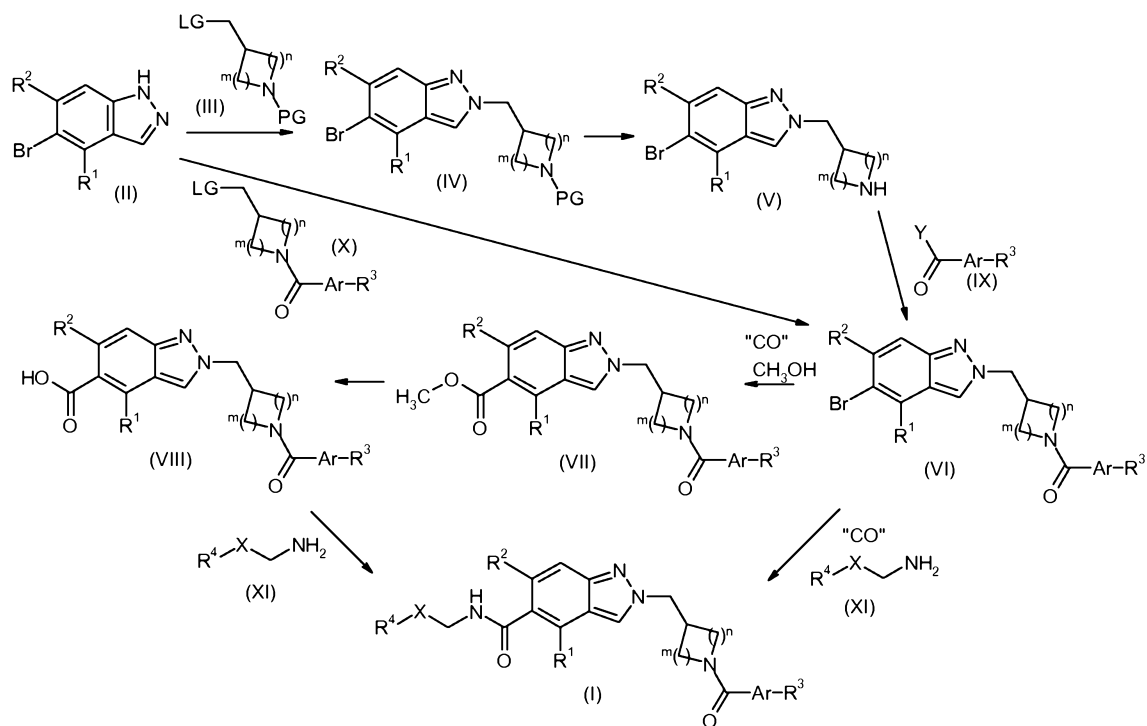
The compounds of the general formula XXIX, can be produced by methods known to those skilled in the art for example from the amines of the formula XXXII (Scheme 4).

- 30 For this, in a first step, the amines XXXII are converted to the corresponding amides XXXIII analogously to the synthesis of the compounds I from the compounds XV.

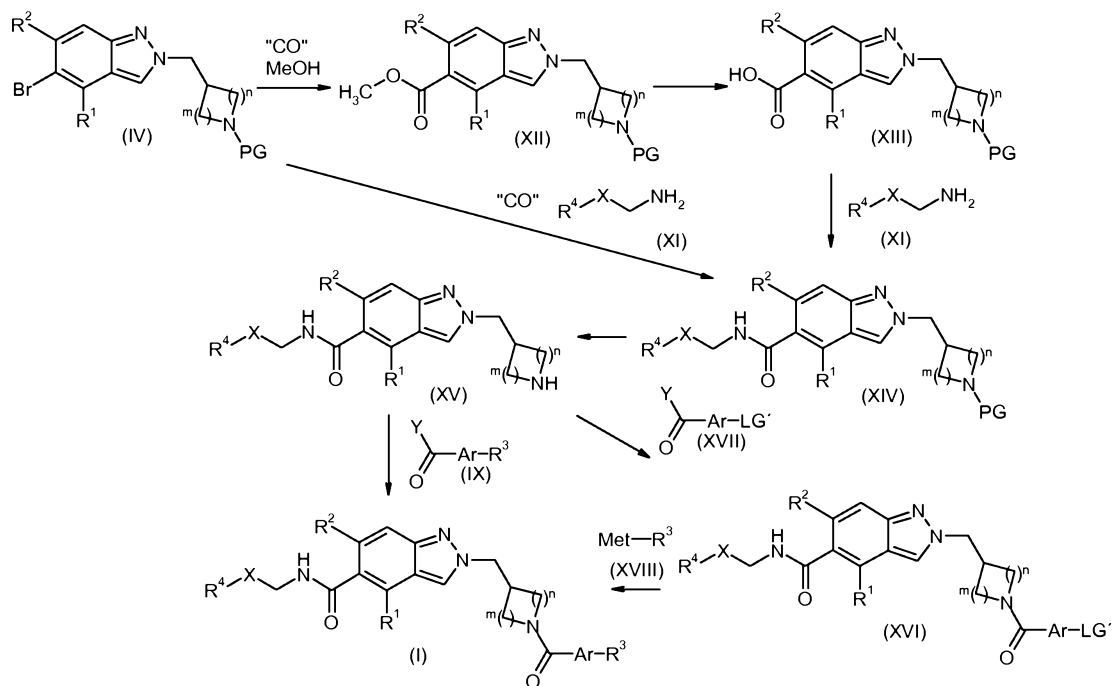
The tert-butyloxycarbonyl group in compounds of the formula XXXIII is cleaved analogously to the conversion of the compounds IV to the compounds V, hence the compounds of the formula XXIX can be obtained.

35

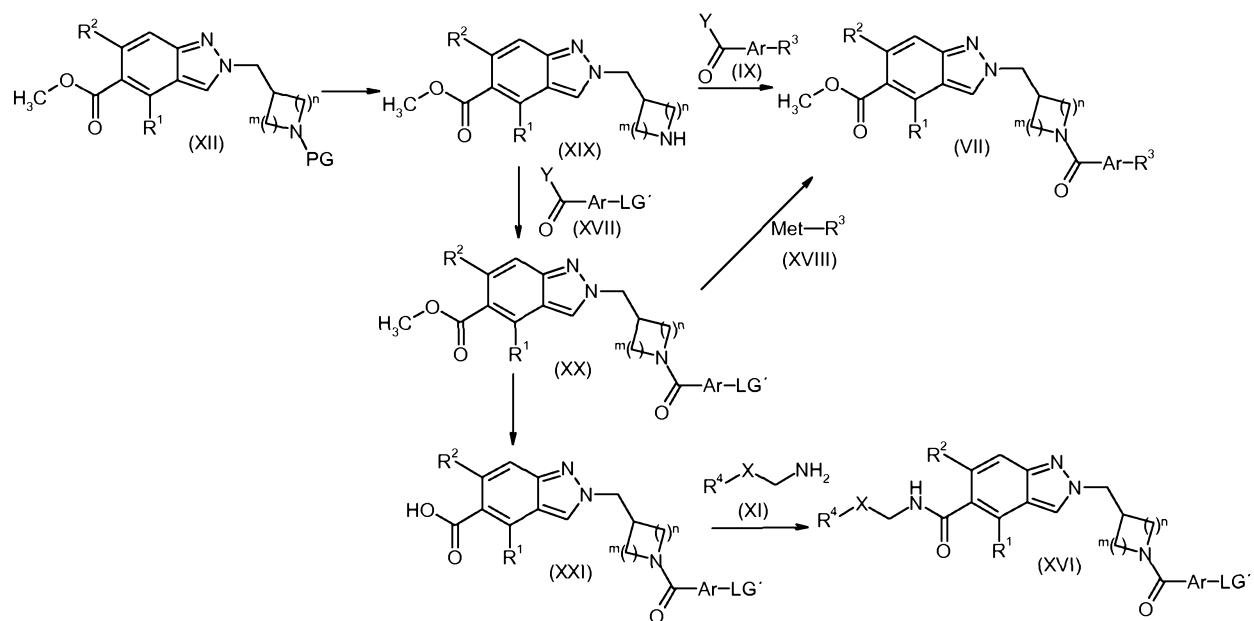
Scheme 1



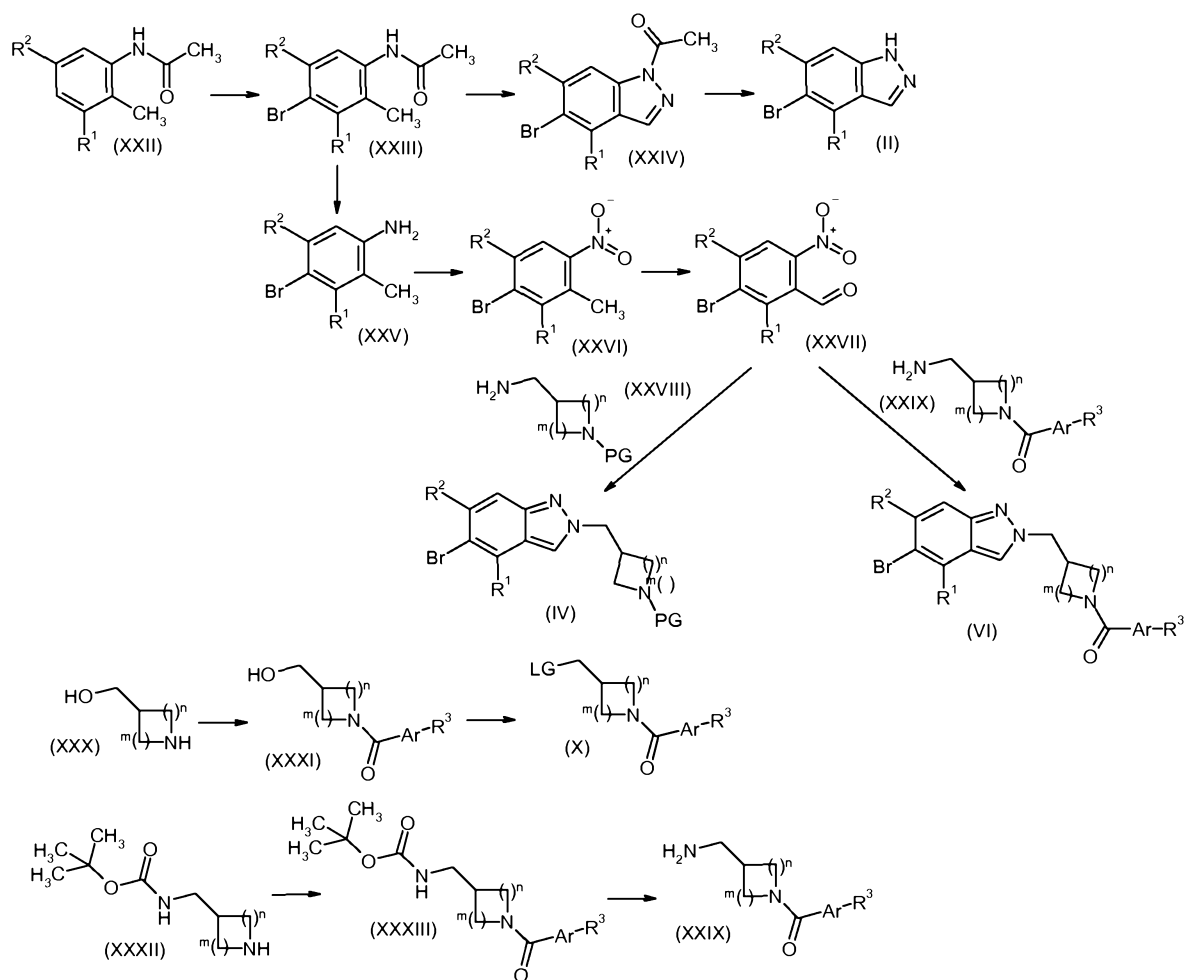
5 Scheme 2



Scheme 3



5 Scheme 4



Production of the compounds according to the invention

The following examples illustrate the production of the compounds according to the invention of the general formula (I), without limiting the range of the claimed compounds to these examples.

- 5 The compounds according to the invention of the general formula (I) can be produced and characterized as described below.

LC-MS: Waters Acquity HPLC / MS 100-800 Daltons; 20 V (Micromass / Waters ZQ 4000); Column: BEHC 18 (Waters), 2.1 x 50 mm, BEH 1.7 μ m; Mobile phase: A: H₂O/0.05% HCOOH, 10 B: CH₃CN/0.05% HCOOH. Gradient: 10-90% B in 1.7 min, 90% B for 0.2 min, 98-2% B in 0.6 min; Flow rate: 1.3 ml / min, Detection: UV = 200 - 400 nm.

Chiral HPLC separation method A:

Preparative chiral HPLC: System: Dionex: Pump P 580, Gilson: Liquid Handler 215, Knauer: 15 UV detector K-2501 Column: Chiralpak AD-H 5 μ m 250x20 mm; Solvent: hexane / ethanol 50:50; Flow rate: 15 ml/min; injection volume: 0.5 ml; Detection: UV 254 nm.

Analytical chiral HPLC: System: Waters: Alliance 2695, DAD 996, ESA: Corona; Column: Chiralpak AD-H 5 μ m 150x4.6 mm Solvent: hexane / ethanol 50:50; Flow rate: 1.0 ml/min; Temperature: 25°C; injection: 5 μ l; Detection: DAD 254 nm.

20

Chiral HPLC separation method B:

Preparative chiral HPLC: System: Dionex: Pump P 580, Gilson: Liquid Handler 215, Knauer: UV detector K-2501 Column: Chiralpak IC 5 μ m 250x30 mm; Solvent: ethanol / methanol 50:50; Flow rate: 30 ml/min; injection volume: 0.5 ml; Detection: UV 254 nm.

- 25 Analytical chiral HPLC: System: Waters: Alliance 2695, DAD 996, ESA: Corona; Column: Chiralpak IC 5 μ m 150x4.6 mm Solvent: ethanol / methanol 50:50; Flow rate: 1.0 ml/min; Temperature: 25°C; injection: 5 μ l; Detection: DAD 254 nm.

Chiral HPLC separation method C:

- 30 Preparative chiral HPLC: System: Dionex: Pump P 580, Gilson: Liquid Handler 215, Knauer: UV detector K-2501 Column: Chiralpak AD-H 5 μ m 250x20 mm; Solvent: hexane / 2-propanol 50:50; Flow rate: 15 ml/min; injection volume: 0.25 ml; Detection: UV 254 nm.

Analytical chiral HPLC: System: Waters: Alliance 2695, DAD 996, ESA: Corona; Column: Chiralpak AD-H 5 μ m 150x4.6 mm Solvent: hexane / 2-propanol 50:50; Flow rate: 1.0 ml/min;

- 35 Temperature: 25°C; injection: 5 μ l; Detection: DAD 254 nm.

Chiral HPLC separation method D:

Preparative chiral HPLC: System: Dionex: Pump P 580, Gilson: Liquid Handler 215, Knauer: UV detector K-2501 Column: Chiralpak IB 5 μ m 250x20 mm; Solvent: hexane / ethanol 70:30; Flow rate: 20 ml/min; injection volume: 0.1 ml; Detection: UV 210 nm.

- 5 Analytical chiral HPLC: System: Waters: Alliance 2695, DAD 996, ESA: Corona; Column: Chiralpak IB 5 μ m 150x4.6 mm Solvent: hexane / ethanol 70:30; Flow rate: 1.0 ml/min; Temperature: 25°C; injection: 5 μ l; Detection: DAD 230 nm.

Chiral HPLC separation method E:

- 10 Preparative chiral HPLC: System: Dionex: Pump P 580, Gilson: Liquid Handler 215, Knauer: UV detector K-2501 Column: Chiralpak IC 5 μ m 250x20 mm; Solvent: ethanol / methanol 50:50; Flow rate: 15 ml/min; injection volume: 0.3 ml; Detection: UV 230 nm.

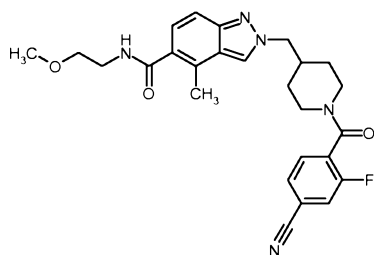
Analytical chiral HPLC: System: Waters: Alliance 2695, DAD 996, ESA: Corona; Column: Chiralpak IC 5 μ m 150x4.6 mm Solvent: ethanol / methanol 50:50; Flow rate: 1.0 ml/min;

- 15 Temperature: 25°C; injection: 5 μ l; Detection: DAD 230 nm.

Abbreviations

Boc	tert-butoxycarbonyl
CO	carbon monoxide
DBU	1,8-diazabicyclo[5.4.0]undec-7-ene
DCM	dichloromethane
DMF	N,N-dimethylformamide
DMSO	dimethyl sulphoxide
ESI; ES+	electrospray ionization (in MS); positive charged ion trace
hr(s)	hour(s)
HATU	N-[(dimethylamino)-1 <i>H</i> -1,2,3-triazolo[4,5- <i>b</i>]pyridin-1-ylmethyl]-N-methylmethanaminium hexafluorophosphate N-oxide
HPLC	high pressure, high performance liquid chromatography
conc.	concentrated
LC-MS	liquid chromatography-coupled mass spectroscopy
M	molar
min(s)	minute(s)
MS	mass spectroscopy
N	normal
NMR	nuclear resonance spectroscopy
R _t	retention time (in HPLC and LC)
RT	room temperature
tert	tertiary
THF	tetrahydrofuran

Example 1: 2-{[1-(4-cyano-2-fluorobenzoyl)piperidin-4-yl]methyl}-N-(2-methoxyethyl)-4-methyl-2H-indazol-5-carboxamide

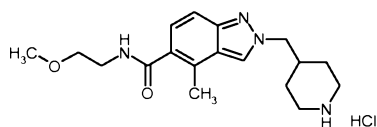


To a solution of 33.7 mg of 4-cyano-2-fluorobenzoic acid in 1.0 ml dimethyl sulphoxide were added 85.5 mg of HATU, 75 mg of the amine prepared in Example 1a and 0.071 ml of N,N-diisopropylethylamine and this was stirred for 1 hour at 25°C. The mixture was concentrated in vacuo and the residue thus obtained purified by HPLC. Yield: 43.3 mg of the title compound.

¹H-NMR (400 MHz, DMSO-d₆): δ [ppm]= 1.07 - 1.28 (2H), 1.30 - 1.44 (1H), 1.47 - 1.61 (1H), 2.18 - 2.34 (1H), 2.49 (3H), 2.71 - 2.83 (1H), 2.92 - 3.08 (1H), 3.32 (4H), 3.36 (2H), 3.42 (2H), 4.31 (2H), 4.39 - 4.51 (1H), 7.14 (1H), 7.38 (1H), 7.50 - 7.63 (1H), 7.71 - 7.79 (1H), 7.95 (1H), 8.09 - 8.15 (1H), 8.47 (1H).

The starting material for the above title compound was prepared as follows:

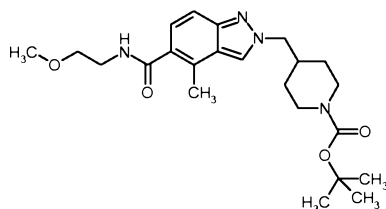
Example 1a: N-(2-methoxyethyl)-4-methyl-2-(4-piperidylmethyl)-2H-indazol-5-carboxamide hydrochloride



To 855.1 mg of 1b were added 4.5 ml of 4M hydrochloric acid in dioxan and 1 ml dioxan. An oily mass was formed, which dissolved on vigorous stirring and gentle warming. The mixture was stirred for 1 hr at ca. 30°C. The reaction mixture was concentrated. Yield: 764.7 mg of the title compound, which was further reacted without further purification.

¹H-NMR (300 MHz, DMSO-d₆): δ [ppm]= 1.33 - 1.50 (2H), 1.52 - 1.62 (2H), 2.17 - 2.31 (1H), 2.32 - 2.38 (1H), 2.49 (3H), 2.67 - 2.86 (2H), 3.13 - 3.28 (5H), 3.31 - 3.46 (4H), 4.33 (2H), 7.16 (1H), 7.38 (1H), 8.13 (1H), 8.53 (1H), 8.71 - 8.88 (1H), 8.99 - 9.11 (1H).

Example 1b: Tert-butyl 4-({5-[N-(2-methoxyethyl)carbamoyl]-4-methyl-2H-indazol-2-yl}-methyl)piperidin-1-carboxylate

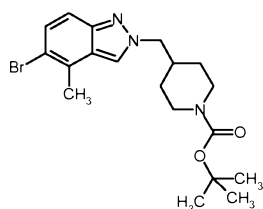


Version A: 2820 mg of 1c, 1556 mg of 2-methoxyethylamine, 1823 mg of molybdenum hexa-carbonyl, 200.4 mg of tri-tert-butylphosphine tetrafluoroborate and 647.5 mg of trans-bis(acetato)-bis[o-(di-o-tolylphosphino)benzyl]dipalladium(II) were placed in portions in three
 5 microwave tubes and suspended with 56 ml THF. Then 3.1 ml of DBU were added and the mixtures stirred for 20 mins at 125°C and 200 watts in the microwave. The reaction mixtures were combined, filtered and diluted with some ethyl acetate and the organic phase washed twice with water and once with saturated sodium chloride solution. This was dried over sodium sulphate, filtered and concentrated. The residue was chromatographed on the Biotage SP4.
 10 Gradient: ethyl acetate/methanol 0-10%. Yield: 885.1 mg of the title compound.

Version B: 780 mg of 1d and 1747 mg of HATU were first dissolved in 10 ml DMSO. Next, 314 mg of 2-methoxyethylamine and 1080 mg of N,N-diisopropylethylamine were added. The mixture was stirred for 1 hr at RT. The reaction mixture was poured into water and extracted
 15 three times with ethyl acetate. The combined organic phases were washed with saturated sodium chloride solution, dried over sodium sulphate, filtered and concentrated. The residue was purified chromatographically on the Biotage SP4. Gradient: ethyl acetate/methanol 0-10%. Yield: 740 mg of the title compound.

¹H-NMR (400 MHz, DMSO-d₆): δ [ppm]= 1.01 - 1.13 (2H), 1.34 (9H), 1.36 - 1.43 (2H), 2.06 -
 20 2.19 (1H), 2.49 (3H), 2.59 - 2.70 (2H), 3.29 (3H), 3.33 - 3.39 (2H), 3.40 - 3.45 (2H), 3.82 - 3.93 (2H), 4.28 (2H), 7.14 (1H), 7.38 (1H), 8.09 - 8.14 (1H), 8.46 (1H).

Example 1c: Tert-butyl 4-[(5-bromo-4-methyl-2H-indazol-2-yl)methyl]piperidin-1-carboxylate



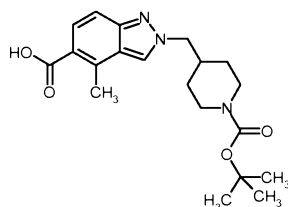
25 5 g of 5-bromo-4-methyl-1H-indazole was dissolved in 110 ml DMF and treated with 11.5 g of caesium carbonate and 7.9 g of N-Boc-4-(bromomethyl)piperidine. The mixture was stirred for 3 hrs at 60°C and overnight at RT. The reaction mixture was next diluted with ethyl acetate, and the organic phase was washed twice with water, dried over sodium sulphate, filtered and concentrated. The residue was purified chromatographically on the Biotage SP4 via a 65i-Si

column. Gradient: hexane/ethyl acetate 0-100%. Yield: 3.53 g of the title compound.

¹H-NMR (300 MHz, DMSO-d₆): δ [ppm]= 0.99 - 1.12 (2H), 1.34 (9H), 1.36 - 1.44 (2H), 2.04 - 2.19 (1H), 2.47 (3H), 2.54 - 2.72 (2H), 3.82 - 3.93 (2H), 4.27 (2H), 7.29 (1H), 7.34 (1H), 8.46 (1H).

5

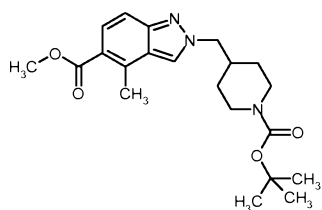
Example 1d: 2-{[1-(tert-butoxycarbonyl)piperidin-4-yl]methyl}-4-methyl-2H-indazol-5-carboxylic acid



1080 mg of 1c were dissolved in 8 ml methanol and treated with 1235 mg of lithium hydroxide in 10 ml water. A further 2 ml THF were added as solubilizer. The mixture was stirred for 24 hrs at RT. Next the methanol and THF were distilled off. The aqueous residue was diluted with water and washed once with ethyl acetate. The aqueous phase was acidified with 10% sulphuric acid and extracted twice with ethyl acetate. The combined organic phases were dried over sodium sulphate, filtered and concentrated. Yield: 880 mg of the title compound.

¹H-NMR (300 MHz, DMSO-d₆): δ [ppm]= 0.99 - 1.18 (2H), 1.37 - 1.48 (2H), 1.34 (9H), 2.05 - 2.21 (1H), 2.53 - 2.70 (2H), 2.73 (3H), 3.81 - 3.94 (2H), 4.29 (2H), 7.39 (1H), 7.62 (1H), 8.62 (1H), 11.92 - 12.31 (1H).

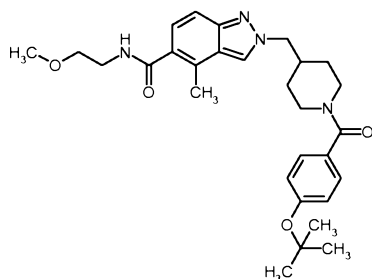
Example 1e: Methyl 2-{[1-(tert-butoxycarbonyl)piperidin-4-yl]methyl}-4-methyl-2H-indazol-5-carboxylate



666 mg of 1c, 156.8 mg of methanol, 645.8 mg of molybdenum hexacarbonyl, 47.3 mg of tri-tert-butylphosphine tetrafluoroborate and 123.5 mg of trans-bis(acetato)-bis[o-(di-o-tolylphosphino)benzyl]dipalladium(II) were placed in a microwave tube and suspended in 15 ml THF. Then 0.7 ml of DBU were added and the mixture was stirred for 20 mins at 125°C and 150 watts in the microwave. Next, it was concentrated, taken up in ethyl acetate and the organic phase washed twice with water and once with saturated sodium chloride solution. It was dried over sodium sulphate, filtered and concentrated. The residue was chromatographed on the Biotage SP4. Gradient: hexane/ethyl acetate 0-100%. Yield: 363 mg of the title compound.

¹H-NMR (400 MHz, DMSO-d₆): δ [ppm]= 1.01 - 1.12 (2H), 1.34 (9H), 1.37 - 1.45 (2H), 2.08 - 2.19 (1H), 2.53 - 2.69 (2H), 2.73 (3H), 3.79 (3H), 3.83 - 3.93 (2H), 4.30 (2H), 7.42 (1H), 7.62 (1H), 8.67 (1H).

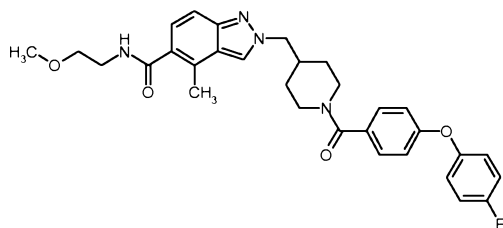
- 5 **Example 2:** 2-({1-[4-tert-(butoxy)benzoyl]piperidin-4-yl} methyl)-N-(2-methoxyethyl)-4-methyl-2H-indazol-5-carboxamide



Analogously to Example 1, 35.9 mg of the title compound was obtained from 75 mg of the amine prepared in Example 1a and 39.7 mg of 4-(tert-butoxy)benzoic acid.

- 10 ¹H-NMR (300 MHz, DMSO-d₆): δ [ppm]= 1.09 - 1.26 (2H), 1.29 (9H), 1.35 - 1.58 (2H), 2.15 - 2.35 (1H), 2.49 (3H), 2.69 - 2.97 (2H), 3.24 (3H), 3.32 - 3.47 (4H), 4.23 - 4.40 (2H), 6.98 (2H), 7.14 (1H), 7.23 (2H), 7.38 (1H), 8.10 (1H), 8.47 (1H).

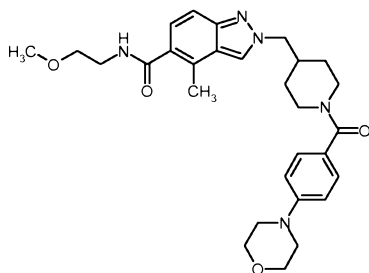
- 15 **Example 3:** 2-({1-[4-(4-fluorophenoxy)benzoyl]piperidin-4-yl} methyl)-N-(2-methoxyethyl)-4-methyl-2H-indazol-5-carboxamide



Analogously to Example 1, 51.6 mg of the title compound was obtained from 75 mg of the amine prepared in Example 1a and 47.5 mg of 4-(4-fluorophenoxy)benzoic acid.

- 20 ¹H-NMR (300 MHz, DMSO-d₆): δ [ppm]= 1.10 - 1.30 (2H), 1.32 - 1.58 (2H), 2.19 - 2.35 (1H), 2.49 (3H), 2.71 - 3.02 (2H), 3.25 (3H), 3.32 - 3.39 (2H), 3.40 - 3.47 (2H), 4.32 (2H), 6.95 (2H), 7.06 - 7.14 (3H), 7.15 - 7.27 (3H), 7.31 - 7.42 (3H), 8.07 - 8.15 (1H), 8.47 (1H).

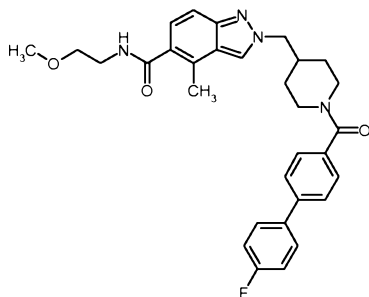
Example 4: N-(2-methoxyethyl)-4-methyl-2-{{1-[4-(morpholinobenzoyl)piperidin-4-yl]methyl}-2H-indazol-5-carboxamide



Analogously to Example 1, 48.1 mg of the title compound was obtained from 75 mg of the amine prepared in Example 1a and 42.3 mg of 4-morpholinobenzoic acid.

¹H-NMR (300 MHz, DMSO-d₆): δ [ppm]= 1.09 - 1.29 (2H), 1.36 - 1.53 (2H), 2.16 - 2.34 (1H),
 5 2.49 (3H), 2.72 - 2.94 (2H), 3.13 (4H), 3.24 (3H), 3.42 (4H), 3.64 - 3.75 (4H), 3.92 - 4.15 (1H),
 4.32 (2H), 6.92 (2H), 7.14 (1H), 7.20 (2H), 7.38 (1H), 8.07 - 8.15 (1H), 8.47 (1H).

Example 5: 2-({1-[(4'-fluorobiphenyl-4-yl)carbonyl]piperidin-4-yl} methyl)-N-(2-methoxyethyl)-4-methyl-2H-indazol-5-carboxamide

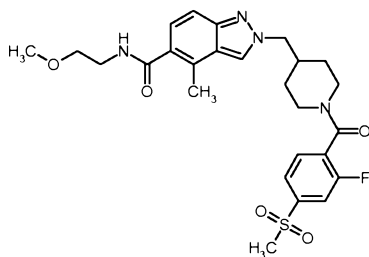


10

Analogously to Example 1, 50.1 mg of the title compound was obtained from 75 mg of the amine prepared in Example 1a and 44.2 mg of 4-(4-fluorophenyl)benzoic acid.

¹H-NMR (300 MHz, DMSO-d₆): δ [ppm]= 1.11 - 1.32 (2H), 1.32 - 1.64 (2H), 2.20 - 2.36 (1H),
 2.49 (3H), 2.63 - 3.08 (2H), 3.24 (3H), 3.42 (4H), 3.50 - 3.73 (1H), 4.24 - 4.55 (3H), 7.10 - 7.20
 15 (1H), 7.27 2H), 7.41 (3H), 7.67 (4H), 8.03 - 8.16 (1H), 8.48 (1H).

Example 6: 2-[1-(2-fluoro-4-mesylbenzoyl)piperidin-4-yl]methyl}-N-(2-methoxyethyl)-4-methyl-2H-indazol-5-carboxamide



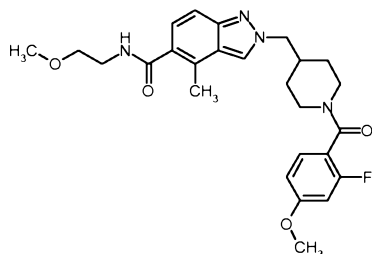
20

Analogously to Example 1, 40.1 mg of the title compound was obtained from 75 mg of the amine prepared in Example 1a and 44.6 mg of 2-fluoro-4-mesylbenzoic acid.

¹H-NMR (300 MHz, DMSO-d₆): δ [ppm]= 1.06 - 1.30 (2H), 1.31 - 1.45 (1H), 1.51 - 1.64 (1H), 2.20 - 2.37 (1H), 2.49 (3H), 2.71 - 2.85 (1H), 2.91 - 3.10 (1H), 3.24 (3H), 3.26 (3H), 3.33 - 3.39 (2H), 3.42 (2H), 4.24 - 4.39 (2H), 4.40 - 4.51 (1H), 7.14 (1H), 7.38 (1H), 7.59 - 7.69 (1H), 7.76 - 7.89 (2H), 8.07 - 8.14 (1H), 8.47 (1H).

5

Example 7: 2-{[1-(2-fluoro-4-methoxybenzoyl)piperidin-4-yl]methyl}-N-(2-methoxyethyl)-4-methyl-2H-indazol-5-carboxamide



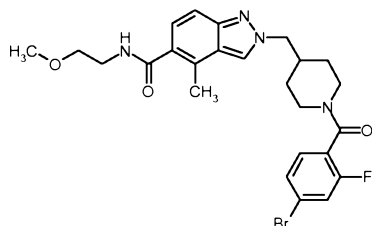
Analogously to Example 1, 43.1 mg of the title compound was obtained from 75 mg of the amine prepared in Example 1a and 34.8 mg of 2-fluoro-4-methoxybenzoic acid.

10

¹H-NMR (300 MHz, DMSO-d₆): δ [ppm]= 1.05 - 1.25 (2H), 1.32 - 1.44 (1H), 1.48 - 1.61 (1H), 2.18 - 2.33 (1H), 2.49 (3H), 2.63 - 2.79 (1H), 2.88 - 3.05 (1H), 3.24 (3H), 3.42 (d, 5H), 3.75 (3H), 4.27 - 4.35 (2H), 4.37 - 4.49 (1H), 6.77 - 6.89 (2H), 7.14 (1H), 7.24 (1H), 7.38 (1H), 8.07 - 8.15 (1H), 8.47 (1H).

15

Example 8: 2-{[1-(4-bromo-2-fluorobenzoyl)piperidin-4-yl]methyl}-N-(2-methoxyethyl)-4-methyl-2H-indazol-5-carboxamide



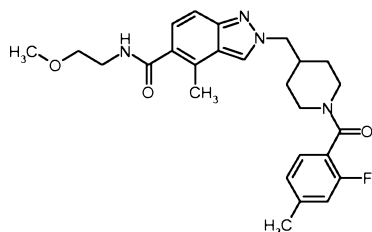
Analogously to Example 1, 51.8 mg of the title compound was obtained from 75 mg of the amine prepared in Example 1a and 44.7 mg of 4-bromo-2-fluorobenzoic acid.

20

¹H-NMR (300 MHz, DMSO-d₆): δ [ppm]= 1.04 - 1.27 (2H), 1.32 - 1.43 (1H), 1.49 - 1.61 (1H), 2.20 - 2.33 (1H), 2.48 (3H), 2.67 - 2.80 (1H), 2.91 - 3.05 (1H), 3.24 (3H), 3.33 - 3.46 (5H), 4.24 - 4.36 (2H), 4.38 - 4.49 (1H), 7.15 (1H), 7.27 - 7.34 (1H), 7.35 - 7.41 (1H), 7.44 - 7.50 (1H), 7.60 - 7.66 (1H), 8.07 - 8.15 (1H), 8.47 (1H).

25

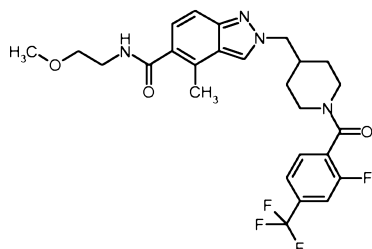
Example 9: 2-{[1-(2-fluoro-4-methylbenzoyl)piperidin-4-yl]methyl}-N-(2-methoxyethyl)-4-methyl-2H-indazol-5-carboxamide



Analogously to Example 1, 38.3 mg of the title compound was obtained from 75 mg of the amine prepared in Example 1a and 31.5 mg of 2-fluoro-4-methylbenzoic acid.

¹H-NMR (300 MHz, DMSO-d₆): δ [ppm]= 1.04 - 1.26 (2H), 1.31 - 1.43 (1H), 1.48 - 1.60 (1H),
 5 2.18 - 2.35 (4H), 2.48 (3H), 2.64 - 2.79 (1H), 2.89 - 3.04 (1H), 3.24 (3H), 3.33 - 3.39 (3H), 3.39 - 3.45 (2H), 4.23 - 4.36 (2H), 4.39 - 4.49 (1H), 7.01 - 7.10 (2H), 7.13 (1H), 7.16 - 7.24 (1H), 7.38 (1H), 8.07 - 8.14 (1H), 8.47 (1H).

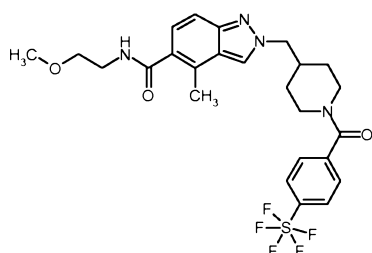
Example 10: 2-((1-[2-fluoro-4-(trifluoromethyl)benzoyl]piperidin-4-yl)methyl)-N-(2-methoxyethyl)-4-methyl-2H-indazol-5-carboxamide
 10



Analogously to Example 1, 57.8 mg of the title compound was obtained from 75 mg of the amine prepared in Example 1a and 42.5 mg of 2-fluoro-4-(trifluoromethyl)benzoic acid.

¹H-NMR (300 MHz, DMSO-d₆): δ [ppm]= 1.07 - 1.29 (2H), 1.32 - 1.44 (1H), 1.52 - 1.62 (1H),
 15 2.20 - 2.36 (1H), 2.49 (3H), 2.67 - 2.84 (1H), 2.93 - 3.07 (1H), 3.24 (3H), 3.32 - 3.39 (3H), 3.39 - 3.46 (2H), 4.24 - 4.39 (2H), 4.40 - 4.51 (1H), 7.14 (1H), 7.38 (1H), 7.56 - 7.68 (2H), 7.76 (1H), 8.07 - 8.14 (1H), 8.47 (1H).

Example 11: N-(2-methoxyethyl)-4-methyl-2-((1-[4-(pentafluoro-λ⁶-sulphonyl)benzoyl]piperidin-4-yl)methyl)-2H-indazol-5-carboxamide
 20



Analogously to Example 1, 135.1 mg of the title compound was obtained from 150 mg of the amine prepared in Example 1a and 101.5 mg of 4-(pentafluoro-λ⁶-sulphonyl)benzoic acid.

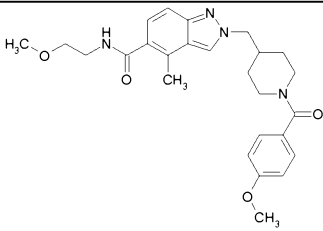
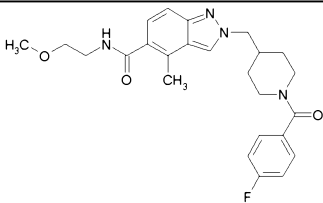
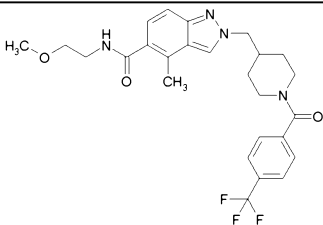
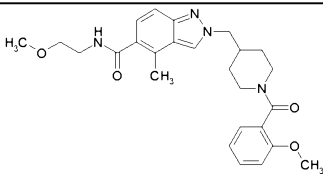
¹H-NMR (300 MHz, DMSO-d₆): δ [ppm]= 1.10 - 1.30 (2H), 1.31 - 1.42 (1H), 1.50 - 1.62 (1H), 2.20 - 2.33 (1H), 2.49 (3H), 2.67 - 2.83 (1H), 2.91 - 3.06 (1H), 3.24 (3H), 3.32 - 3.39 (2H), 3.41 (3H), 4.32 (2H), 4.37 - 4.48 (1H), 7.14 (1H), 7.38 (1H), 7.55 (2H), 7.94 (2H), 8.12 (1H), 8.47 (1H).

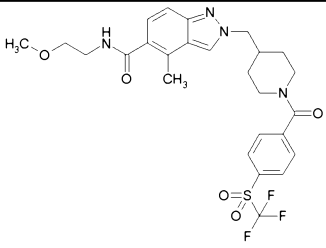
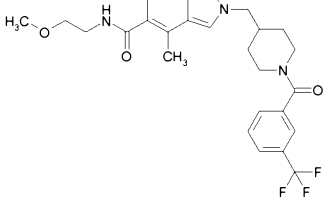
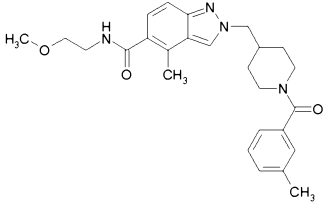
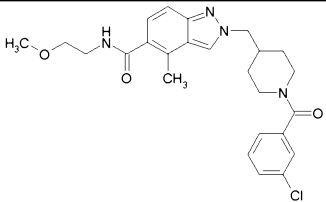
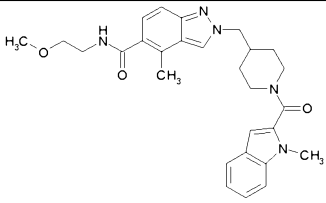
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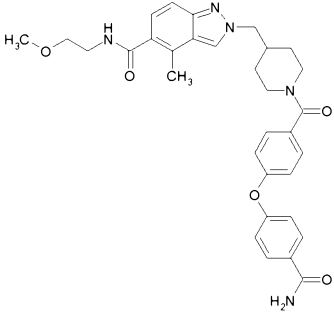
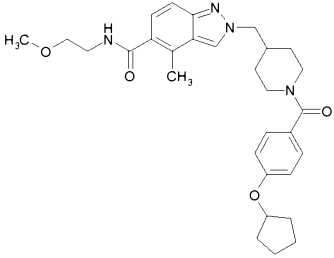
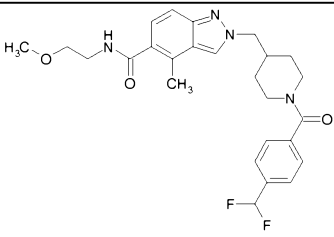
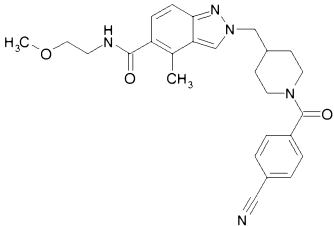
The following compounds were prepared analogously:

Ex.	Structure	IUPAC name	Analysis
12		N-(2-methoxyethyl)-4-methyl-2-({1-[4-methylbenzoyl]piperidin-4-yl}-methyl)-2H-indazol-5-carboxamide	¹ H-NMR (400 MHz, DMSO-d ₆): δ [ppm]= 1.20 (2H), 1.42 (2H), 2.29 (4H), 2.49 (3H), 2.73 (1H), 2.93 (1H), 3.25 (3H), 3.37 (2H), 3.43 (2H), 3.57 (1H), 4.31 (2H), 4.40 (1H), 7.14 (1H), 7.21 (4H), 7.38 (1H), 8.09 (1H), 8.46 (1H).
13		N-(2-methoxyethyl)-4-methyl-2-({1-[(3-phenylisoxazol-5-yl)carbonyl]piperidin-4-yl}-methyl)-2H-indazol-5-carboxamide	¹ H-NMR (300 MHz, DMSO-d ₆): δ [ppm]= 1.25 (2H), 1.55 (2H), 2.34 (1H), 2.49 (3H), 2.83 (1H), 3.15 (1H), 3.24 (3H), 3.40 (4H), 3.87 (1H), 4.35 (3H), 7.15 (1H), 7.40 (1H), 7.46 (1H), 7.50 (3H), 7.90 (2H), 8.13 (1H), 8.49 (1H).
14		2-({1-[4-(4-chlorophenoxy)benzoyl]piperidin-4-yl}-methyl)-N-(2-methoxyethyl)-4-methyl-2H-indazol-5-carboxamide	¹ H-NMR (300 MHz, DMSO-d ₆): δ [ppm]= 1.21 (2H), 1.45 (2H), 2.26 (1H), 2.49 (3H), 2.76 (1H), 2.94 (1H), 3.24 (3H), 3.40 (4H), 3.62 (1H), 4.33 (3H), 7.04 (4H), 7.15 (1H), 7.40 (5H), 8.12 (1H), 8.47 (1H).
15		N-(2-methoxyethyl)-4-methyl-2-({1-[4-(4-methylphenoxy)benzoyl]piperidin-4-yl}-methyl)-2H-indazol-5-carboxamide	¹ H-NMR (300 MHz, DMSO-d ₆): δ [ppm]= 1.20 (2H), 1.43 (2H), 2.26 (4H), 2.48 (3H), 2.76 (1H), 2.90 (1H), 3.24 (3H), 3.38 (4H), 3.62 (1H), 4.32 (3H), 6.92 (4H), 7.71 (3H), 7.34 (3H), 8.12 (1H), 8.47 (1H).

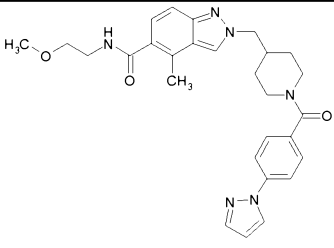
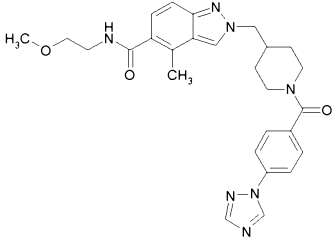
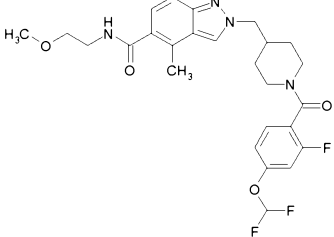
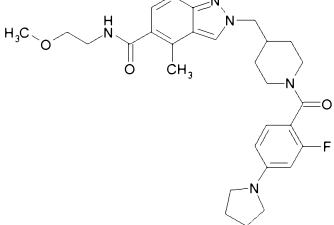
Ex.	Structure	IUPAC name	Analysis
16		2-({1-[4-(4-tert-butylphenoxy)-benzoyl]piperidin-4-yl}methyl)-N-(2-methoxyethyl)-4-methyl-2H-indazol-5-carboxamide	¹ H-NMR (300 MHz, DMSO-d ₆): δ [ppm]= 1.21 (2H), 1.25 (9H), 1.44 (2H), 2.26 (1H), 2.48 (3H), 2.77 (1H), 2.291 (1H), 3.24 (3H), 3.39 (4H), 3.64 (1H), 4.32 (3H), 6.95 (4H), 7.14 (1H), 7.36 (5H), 8.12 (1H), 8.47 (1H).
17		N-(2-methoxyethyl)-4-methyl-2-[(1-{4-[4-(trifluoromethyl)phenoxy]benzoyl}-piperidin-4-yl)-methyl]-2H-indazol-5-carboxamide	¹ H-NMR (300 MHz, DMSO-d ₆): δ [ppm]= 1.22 (2H), 1.45 (2H), 2.27 (1H), 2.49 (3H), 2.77 (1H), 2.97 (1H), 3.24 (3H), 3.39 (4H), 3.61 (1H), 4.33 (3H), 7.15 (5H), 7.39 (3H), 7.73 (2H), 8.12 (1H), 8.48 (1H).
18		N-(2-methoxyethyl)-2-({1-[4-(4-methoxyphenoxy)benzoyl]piperidin-4-yl}-methyl)-4-methyl-2H-indazol-5-carboxamide	¹ H-NMR (300 MHz, DMSO-d ₆): δ [ppm]= 1.19 (2H), 1.44 (2H), 2.25 (1H), 2.48 (3H), 2.86 (2H), 3.24 (3H), 3.40 (4H), 3.64 (1H), 3.72 (3H), 4.32 (3H), 6.88 (2H), 6.95 (2H), 7.02 (2H), 7.14 (1H), 7.31 (2H), 7.38 (1H), 8.12 (1H), 8.47 (1H).
19		N-(2-methoxyethyl)-4-methyl-2-{[1-(4-phenoxybenzoyl)-piperidin-4-yl]-methyl}-2H-indazol-5-carboxamide	¹ H-NMR (300 MHz, DMSO-d ₆): δ [ppm]= 1.21 (2H), 1.44 (2H), 2.26 (1H), 2.49 (3H), 2.77 (1H), 2.92 (1H), 3.24 (3H), 3.38 (4H), 3.64 (1H), 4.32 (3H), 6.97 (2H), 7.04 (2H), 7.16 (2H), 7.26 (5H), 8.12 (1H), 8.47 (1H).
20		2-{[1-(4-cyclopropylbenzoyl)piperidin-4-yl]methyl}-N-(2-methoxyethyl)-4-methyl-2H-indazol-5-carboxamide	¹ H-NMR (300 MHz, DMSO-d ₆): δ [ppm]= 0.65 (2H), 0.93 (2H), 1.19 (2H), 1.43 (2H), 1.90 (1H), 2.25 (1H), 2.48 (3H), 2.73 (1H), 2.92 (1H), 3.24 (3H), 3.39 (4H), 3.59 (1H), 4.32 (3H), 7.14 (5H),

Ex.	Structure	IUPAC name	Analysis
			7.38 (1H), 8.12 (1H), 8.47 (1H).
21		2-([1-(4-methoxybenzoyl)piperidin-4-yl]methyl)-N-(2-methoxyethyl)-4-methyl-2H-indazol-5-carboxamide	¹ H-NMR (400 MHz, DMSO-d ₆): δ [ppm]= 1.19 (2H), 1.44 (2H), 2.26 (1H), 2.49 (3H), 2.82 (2H), 3.24 (3H), 3.36 (2H), 3.42 (2H), 3.50 (1H), 3.74 (3H), 4.31 (3H), 6.93 (2H), 7.14 (1H), 7.29 (2H), 7.38 (1H), 8.12 (1H), 8.47 (1H).
22		2-([1-(4-fluorobenzoyl)piperidin-4-yl]methyl)-N-(2-methoxyethyl)-4-methyl-2H-indazol-5-carboxamide	¹ H-NMR (400 MHz, DMSO-d ₆): δ [ppm]= 1.20 (2H), 1.37 (1H), 1.51 (1H), 2.27 (1H), 2.49 (3H), 2.72 (1H), 2.97 (1H), 3.24 (3H), 3.36 (2H), 3.42 (2H), 3.52 (1H), 4.31 (2H), 4.40 (1H), 7.14 (1H), 7.23 (2H), 7.39 (3H), 8.12 (1H), 8.47 (1H).
23		N-(2-methoxyethyl)-4-methyl-2-([1-(4-(trifluoromethyl)benzoyl)piperidin-4-yl]methyl)-2H-indazol-5-carboxamide	¹ H-NMR (400 MHz, DMSO-d ₆): δ [ppm]= 1.22 (2H), 1.34 (1H), 1.56 (1H), 2.28 (1H), 2.49 (3H), 2.75 (1H), 2.99 (1H), 3.24 (3H), 3.35 (2H), 3.42 (3H), 4.32 (2H), 4.44 (1H), 7.14 (1H), 7.38 (1H), 7.55 (2H), 7.77 (2H), 8.12 (1H), 8.47 (1H).
24		2-([1-(2-methoxybenzoyl)piperidin-4-yl]methyl)-N-(2-methoxyethyl)-4-methyl-2H-indazol-5-carboxamide	¹ H-NMR (400 MHz, DMSO-d ₆): δ [ppm]= 1.11 (2H), 1.35 (1H), 1.52 (1H), 2.23 (1H), 2.49 (3H), 2.66 (1H), 2.87 (1H), 3.22 (1H), 3.24 (3H), 3.35 (2H), 3.42 (2H), 3.71 (3H), 4.29 (1H), 4.33 (1H), 4.45 (1H), 6.94 (1H), 7.07 (3H), 7.33 (1H), 7.39 (1H), 8.12 (1H), 8.48 (1H).

Ex.	Structure	IUPAC name	Analysis
25		N-(2-methoxyethyl)-4-methyl-2-[(1-{4-[(trifluoromethyl)sulphonyl]benzoyl}-piperidin-4-yl)-methyl]-2H-indazol-5-carboxamide	$^1\text{H-NMR}$ (400 MHz, DMSO- d_6): δ [ppm]= 1.23 (2H), 1.36 (1H), 1.57 (1H), 2.29 (1H), 2.49 (3H), 2.77 (1H), 3.01 (1H), 3.24 (3H), 3.35 (3H), 3.42 (2H), 4.32 (2H), 4.44 (1H), 7.14 (1H), 7.38 (1H), 7.77 (2H), 8.15 (3H), 8.47 (1H).
26		N-(2-methoxyethyl)-4-methyl-2-({1-[3-(trifluoromethyl)benzoyl]piperidin-4-yl}methyl)-2H-indazol-5-carboxamide	$^1\text{H-NMR}$ (400 MHz, DMSO- d_6): δ [ppm]= 1.24 (2H), 1.37 (1H), 1.55 (1H), 2.28 (1H), 2.49 (3H), 2.75 (1H), 3.01 (1H), 3.24 (3H), 3.36 (2H), 3.42 (3H), 4.32 (2H), 4.43 (1H), 7.14 (1H), 7.38 (1H), 7.65 (3H), 7.78 (1H), 8.12 (1H), 8.47 (1H).
27		N-(2-methoxyethyl)-4-methyl-2-{{1-(3-methylbenzoyl)piperidin-4-yl}methyl}-2H-indazol-5-carboxamide	$^1\text{H-NMR}$ (400 MHz, DMSO- d_6): δ [ppm]= 1.20 (2H), 1.36 (1H), 1.52 (1H), 2.29 (4H), 2.49 (3H), 2.69 (1H), 2.95 (1H), 3.24 (3H), 3.36 (2H), 3.42 (2H), 3.53 (1H), 4.31 (2H), 4.41 (1H), 7.12 (3H), 7.21 (1H), 7.27 (1H), 7.38 (1H), 8.12 (1H), 8.47 (1H).
28		2-{{1-(3-chlorobenzoyl)piperidin-4-yl}methyl}-N-(2-methoxyethyl)-4-methyl-2H-indazol-5-carboxamide	$^1\text{H-NMR}$ (400 MHz, DMSO- d_6): δ [ppm]= 1.21 (2H), 1.36 (1H), 1.53 (1H), 2.27 (1H), 2.49 (3H), 2.72 (1H), 2.98 (1H), 3.24 (3H), 3.35 (2H), 3.42 (3H), 4.31 (2H), 4.40 (1H), 7.14 (1H), 7.28 (1H), 7.43 (4H), 8.12 (1H), 8.47 (1H).
29		N-(2-methoxyethyl)-4-methyl-2-({1-[(1-methyl-1H-indol-2-yl)carbonyl]piperidin-4-yl}methyl)-2H-indazol-5-carboxamide	$^1\text{H-NMR}$ (400 MHz, DMSO- d_6): δ [ppm]= 1.25 (2H), 1.50 (2H), 2.31 (1H), 2.49 (3H), 2.82 (1H), 3.05 (1H), 3.24 (3H), 3.36 (2H), 3.42 (2H), 3.69 (3H), 3.98 (1H),

Ex.	Structure	IUPAC name	Analysis
		yl} methyl)-2H-indazol-5-carboxamide	4.34 (2H), 4.44 (1H), 6.57 (1H), 7.05 (1H), 7.15 (1H), 7.20 (1H), 7.39 (1H), 7.46 (1H), 7.56 (1H), 8.12 (1H), 8.49 (1H).
30		2-({1-[4-(4-carbamoylphenoxy)-benzoyl]piperidin-4-yl} methyl)-N-(2-methoxyethyl)-4-methyl-2H-indazol-5-carboxamide	¹ H-NMR (400 MHz, DMSO-d ₆): δ [ppm]= 1.22 (2H), 1.49 (2H), 2.31 (1H), 2.52 (3H), 2.82 (1H), 2.98 (1H), 3.27 (3H), 3.39 (2H), 3.45 (2H), 3.65 (1H), 4.35 (2H), 4.43 (1H), 7.08 (4H), 7.17 (1H), 7.29 (1H), 7.41 (3H), 7.91 (3H), 8.12 (1H), 8.50 (1H).
31		2-({1-[4-(cyclopentyloxy)benzoyl]piperidin-4-yl} methyl)-N-(2-methoxyethyl)-4-methyl-2H-indazol-5-carboxamide	¹ H-NMR (400 MHz, DMSO-d ₆): δ [ppm]= 1.23 (2H), 1.47 (2H), 1.57 (2H), 1.68 (4H), 1.90 (2H), 2.28 (1H), 2.52 (3H), 2.86 (2H), 3.27 (3H), 3.39 (2H), 3.45 (2H), 3.85 (2H), 4.34 (2H), 4.83 (1H), 6.91 (2H), 7.17 (1H), 7.28 (2H), 7.41 (1H), 8.12 (1H), 8.49 (1H).
32		2-({1-[4-(difluoromethyl)benzoyl]piperidin-4-yl} methyl)-N-(2-methoxyethyl)-4-methyl-2H-indazol-5-carboxamide	¹ H-NMR (400 MHz, DMSO-d ₆): δ [ppm]= 1.24 (2H), 1.39 (1H), 1.57 (1H), 2.30 (1H), 2.52 (3H), 2.76 (1H), 3.01 (1H), 3.27 (3H), 3.39 (2H), 3.45 (3H), 4.35 (2H), 4.45 (1H), 7.18 (2H), 7.41 (1H), 7.49 (2H), 7.62 (2H), 8.12 (1H), 8.49 (1H).
33		2-({1-[4-(4-cyano)benzoyl]piperidin-4-yl} methyl)-N-(2-methoxyethyl)-4-methyl-2H-indazol-5-carboxamide	¹ H-NMR (400 MHz, DMSO-d ₆): δ [ppm]= 1.24 (2H), 1.39 (1H), 1.58 (1H), 2.30 (1H), 2.52 (3H), 2.77 (1H), 3.01 (1H), 3.27 (3H), 3.39 (3H), 3.45 (2H), 4.34 (2H), 4.44 (1H), 7.17 (1H), 7.41 (1H), 7.54 (2H), 7.90 (2H), 8.12 (1H),

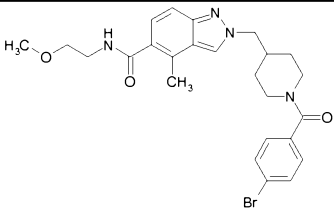
Ex.	Structure	IUPAC name	Analysis
			8.49 (1H).
34		2-((1-[4-(1H-imidazol-1-yl)-benzoyl]piperidin-4-yl)methyl)-N-(2-methoxyethyl)-4-methyl-2H-indazol-5-carboxamide	¹ H-NMR (300 MHz, DMSO-d ₆): δ [ppm]= 1.24 (2H), 1.39 (1H), 1.56 (1H), 2.29 (1H), 2.49 (3H), 2.76 (1H), 3.04 (1H), 3.24 (3H), 3.37 (3H), 3.42 (3H), 4.33 (2H), 4.44 (1H), 7.15 (1H), 7.39 (1H), 7.61 (2H), 7.84 (3H), 8.11 (1H), 8.26 (1H), 8.48 (1H).
35		N-(2-methoxyethyl)-4-methyl-2-((1-[4-(oxazol-2-yl)-benzoyl]piperidin-4-yl)methyl)-2H-indazol-5-carboxamide	¹ H-NMR (300 MHz, DMSO-d ₆): δ [ppm]= 1.24 (2H), 1.37 (1H), 1.54 (1H), 2.27 (1H), 2.49 (3H), 2.75 (1H), 3.00 (1H), 3.24 (3H), 3.36 (2H), 3.42 (2H), 3.53 (1H), 4.32 (2H), 4.43 (1H), 7.14 (1H), 7.38 (2H), 7.48 (2H), 8.00 (2H), 8.12 (1H), 8.23 (1H), 8.48 (1H).
36		N-(2-methoxyethyl)-4-methyl-2-((1-[4-(oxazol-5-yl)-benzoyl]piperidin-4-yl)methyl)-2H-indazol-5-carboxamide	¹ H-NMR (300 MHz, DMSO-d ₆): δ [ppm]= 1.22 (2H), 1.38 (1H), 1.53 (1H), 2.28 (1H), 2.49 (3H), 2.74 (1H), 2.98 (1H), 3.24 (3H), 3.36 (2H), 3.41 (2H), 3.55 (1H), 4.32 (2H), 4.41 (1H), 7.15 (1H), 7.42 (3H), 7.74 (3H), 8.12 (1H), 8.47 (2H).
37		N-(2-methoxyethyl)-4-methyl-2-((1-[4-(isoxazol-5-yl)-benzoyl]piperidin-4-yl)methyl)-2H-indazol-5-carboxamide	¹ H-NMR (300 MHz, DMSO-d ₆): δ [ppm]= 1.22 (2H), 1.36 (1H), 1.55 (1H), 2.28 (1H), 2.49 (3H), 2.74 (1H), 2.99 (1H), 3.24 (3H), 3.39 (5H), 4.31 (2H), 4.43 (1H), 4.74 (2H), 7.14 (1H), 7.38 (1H), 7.50 (2H), 7.95 (2H), 8.12 (1H), 8.47 (1H).

Ex.	Structure	IUPAC name	Analysis
38		N-(2-methoxyethyl)-4-methyl-2-({1-[4-(1H-pyrazol-1-yl)benzoyl]piperidin-4-yl} methyl)-2H-indazol-5-carboxamide	$^1\text{H-NMR}$ (300 MHz, DMSO- d_6): δ [ppm]= 1.22 (2H), 1.46 (2H), 2.28 (1H), 2.49 (3H), 2.76 (1H), 2.99 (1H), 3.24 (3H), 3.39 (4H), 3.61 (1H), 4.32 (2H), 4.41 (1H), 6.54 (1H), 7.15 (1H), 7.39 (1H), 7.46 (2H), 7.74 (1H), 7.87 (2H), 8.12 (1H), 8.50 (2H).
39		N-(2-methoxyethyl)-4-methyl-2-({1-[4-(1H-1,2,4-triazol-1-yl)benzoyl]piperidin-4-yl} methyl)-2H-indazol-5-carboxamide	$^1\text{H-NMR}$ (300 MHz, DMSO- d_6): δ [ppm]= 1.22 (2H), 1.39 (1H), 1.53 (1H), 2.27 (1H), 2.49 (3H), 2.76 (1H), 3.00 (1H), 3.24 (3H), 3.39 (4H), 3.54 (1H), 4.32 (2H), 4.43 (1H), 7.15 (1H), 7.39 (1H), 7.53 (2H), 7.90 (2H), 8.12 (1H), 8.24 (1H), 8.48 (1H), 9.32 (1H).
40		2-({1-[4-(difluoromethoxy)-2-fluorobenzoyl]piperidin-4-yl} methyl)-N-(2-methoxyethyl)-4-methyl-2H-indazol-5-carboxamide	$^1\text{H-NMR}$ (300 MHz, DMSO- d_6): δ [ppm]= 1.16 (2H), 1.38 (1H), 1.55 (1H), 2.26 (1H), 2.48 (3H), 2.73 (1H), 2.98 (1H), 3.24 (3H), 3.38 (5H), 4.31 (2H), 4.44 (1H), 7.12 (3H), 7.31 (1H), 7.40 (2H), 8.12 (1H), 8.47 (1H).
41		2-({1-[2-fluoro-4-(pyrrolidin-1-yl)benzoyl]piperidin-4-yl} methyl)-N-(2-methoxyethyl)-4-methyl-2H-indazol-5-carboxamide	$^1\text{H-NMR}$ (300 MHz, DMSO- d_6): δ [ppm]= 1.14 (2H), 1.43 (2H), 1.90 (4H), 2.23 (1H), 2.48 (3H), 2.68 (1H), 2.94 (1H), 3.19 (4H), 3.24 (3H), 3.36 (2H), 3.42 (3H), 4.31 (2H), 4.39 (1H), 6.29 (2H), 7.10 (2H), 7.38 (1H), 8.12 (1H), 8.47 (1H).

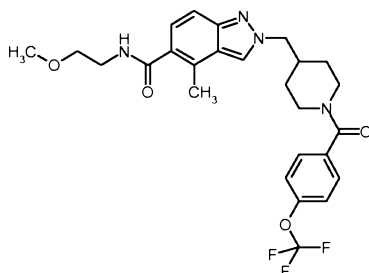
Ex.	Structure	IUPAC name	Analysis
42		2-({1-[(3,4'-difluoro-biphenyl-4-yl)-carbonyl]piperidin-4-yl}methyl)-N-(2-methoxyethyl)-4-methyl-2H-indazol-5-carboxamide	$^1\text{H-NMR}$ (300 MHz, DMSO-d_6): δ [ppm]= 1.19 (2H), 1.39 (1H), 1.57 (1H), 2.28 (1H), 2.49 (3H), 2.76 (1H), 3.01 (1H), 3.24 (3H), 3.38 (5H), 4.32 (2H), 4.47 (1H), 7.15 (1H), 7.28 (2H), 7.40 (2H), 7.56 (2H), 7.76 (2H), 8.12 (1H), 8.48 (1H).
43		2-({1-[(3-fluoro-4'-methoxybiphenyl-4-yl)carbonyl]piperidin-4-yl}methyl)-N-(2-methoxyethyl)-4-methyl-2H-indazol-5-carboxamide	$^1\text{H-NMR}$ (300 MHz, DMSO-d_6): δ [ppm]= 1.19 (2H), 1.39 (1H), 1.57 (1H), 2.28 (1H), 2.49 (3H), 2.76 (1H), 3.01 (1H), 3.24 (3H), 3.38 (5H), 4.32 (2H), 4.47 (1H), 7.15 (1H), 7.28 (2H), 7.40 (2H), 7.56 (2H), 7.76 (2H), 8.12 (1H), 8.48 (1H).
44		2-({1-[(3-fluoro-4'-methylbiphenyl-4-yl)carbonyl]piperidin-4-yl}methyl)-N-(2-methoxyethyl)-4-methyl-2H-indazol-5-carboxamide	$^1\text{H-NMR}$ (400 MHz, DMSO-d_6): δ [ppm]= 1.19 (2H), 1.39 (1H), 1.57 (1H), 2.31 (4H), 2.49 (3H), 2.75 (1H), 3.01 (1H), 3.24 (3H), 3.36 (2H), 3.42 (3H), 4.32 (2H), 4.48 (1H), 7.14 (1H), 7.26 (2H), 7.39 (2H), 7.56 (4H), 8.12 (1H), 8.48 (1H).
45		2-[(1-{[3-fluoro-3'-(trifluoromethyl)-biphenyl-4-yl]-carbonyl}-piperidin-4-yl)-methyl]-N-(2-methoxyethyl)-4-methyl-2H-indazol-5-carboxamide	$^1\text{H-NMR}$ (400 MHz, DMSO-d_6): δ [ppm]= 1.20 (2H), 1.40 (1H), 1.57 (1H), 2.29 (1H), 2.49 (3H), 2.76 (1H), 3.03 (1H), 3.24 (3H), 3.36 (2H), 3.41 (3H), 4.33 (2H), 4.48 (1H), 7.15 (1H), 7.39 (1H), 7.45 (1H), 7.69 (4H), 8.03 (2H), 8.12 (1H), 8.49 (1H).

Ex.	Structure	IUPAC name	Analysis
46		2-[(1-{[3-fluoro-2'-(trifluoromethoxy)-biphenyl-4-yl]-carbonyl}piperidin-4-yl)methyl]-N-(2-methoxyethyl)-4-methyl-2H-indazol-5-carboxamide	¹ H-NMR (300 MHz, DMSO-d ₆): δ [ppm]= 1.20 (2H), 1.42 (1H), 1.57 (1H), 2.29 (1H), 2.49 (3H), 2.76 (1H), 3.04 (1H), 3.24 (3H), 3.36 (5H), 4.32 (2H), 4.48 (1H), 7.15 (1H), 7.44 (8H), 8.12 (1H), 8.49 (1H).
47		2-({1-[(2'-fluoro-biphenyl-4-yl)-carbonyl]piperidin-4-yl}methyl)-N-(2-methoxyethyl)-4-methyl-2H-indazol-5-carboxamide	¹ H-NMR (300 MHz, DMSO-d ₆): δ [ppm]= 1.23 (2H), 1.41 (1H), 1.53 (1H), 2.29 (1H), 2.49 (3H), 2.74 (1H), 3.01 (1H), 3.24 (3H), 3.36 (4H), 3.60 (1H), 4.33 (2H), 4.44 (1H), 7.15 (1H), 7.29 (2H), 7.40 (4H), 7.55 (3H), 8.12 (1H), 8.48 (1H).
48		2-({1-[(2',4'-difluoro-biphenyl-4-yl)-carbonyl]piperidin-4-yl}methyl)-N-(2-methoxyethyl)-4-methyl-2H-indazol-5-carboxamide	¹ H-NMR (300 MHz, DMSO-d ₆): δ [ppm]= 1.23 (2H), 1.39 (1H), 1.53 (1H), 2.28 (1H), 2.49 (3H), 2.75 (1H), 3.01 (1H), 3.24 (3H), 3.39 (4H), 3.60 (1H), 4.33 (2H), 4.43 (1H), 7.16 (2H), 7.40 (4H), 7.56 (3H), 8.12 (1H), 8.48 (1H).
49		2-({1-[(2-fluoro-biphenyl-4-yl)-carbonyl]piperidin-4-yl}methyl)-N-(2-methoxyethyl)-4-methyl-2H-indazol-5-carboxamide	¹ H-NMR (400 MHz, DMSO-d ₆): δ [ppm]= 1.24 (2H), 1.39 (1H), 1.56 (1H), 2.29 (1H), 2.49 (3H), 2.74 (1H), 3.02 (1H), 3.25 (3H), 3.37 (2H), 3.42 (2H), 3.59 (1H), 4.33 (2H), 4.43 (1H), 7.15 (1H), 7.28 (2H), 7.40 (2H), 7.46 (2H), 7.54 (3H), 8.12 (1H), 8.48 (1H).

Ex.	Structure	IUPAC name	Analysis
50		N-(2-methoxyethyl)-4-methyl-2-({1-[(2'-methylbiphenyl-4-yl)carbonyl]piperidin-4-yl} methyl)-2H-indazol-5-carboxamide	¹ H-NMR (400 MHz, DMSO-d ₆): δ [ppm]= 1.24 (2H), 1.42 (1H), 1.55 (1H), 2.20 (3H), 2.29 (1H), .249 (3H), 2.75 (1H), 3.02 (1H), 3.25 (3H), 3.37 (2H), 3.42 (2H), 3.64 (1H), 4.33 (2H), 4.42 (1H), 7.21 (5H), 7.38 (5H), 8.12 (1H), 8.49 (1H).
51		N-(2-methoxyethyl)-4-methyl-2-({1-[4-(pyridyloxy)benzoyl]piperidin-4-yl} methyl)-2H-indazol-5-carboxamide	¹ H-NMR (400 MHz, DMSO-d ₆): δ [ppm]= 1.24 (2H), 1.42 (1H), 1.55 (1H), 2.29 (1H), 2.49 (3H), 2.76 (1H), 3.02 (1H), 3.25 (3H), 3.37 (2H), 3.43 (2H), 3.60 (1H), 4.33 (2H), 4.44 (1H), 7.15 (1H), 7.37 (3H), 7.48 (2H), 7.53 (2H), 8.12 (1H), 8.48 (1H), 8.75 (2H).
52		N-(2-methoxyethyl)-4-methyl-2-({1-[4-(4H-1,2,4-triazol-4-yl)benzoyl]piperidin-4-yl} methyl)-2H-indazol-5-carboxamide	¹ H-NMR (400 MHz, DMSO-d ₆): δ [ppm]= 1.23 (2H), 1.38 (1H), 1.54 (1H), 2.28 (1H), 2.49 (3H), 2.74 (1H), 3.02 (1H), 3.24 (3H), 3.36 (2H), 3.42 (2H), 3.53 (1H), 4.32 (2H), 4.42 (1H), 7.14 (1H), 7.38 (1H), 7.55 (2H), 7.75 (2H), 8.14 (1H), 8.48 (1H), 9.15 (2H).
53		2-{{1-[(2-fluoro-4-morpholinobenzoyl)piperidin-4-yl] methyl}-N-(2-methoxyethyl)-4-methyl-2H-indazol-5-carboxamide	¹ H-NMR (600 MHz, DMSO-d ₆): δ [ppm]= 1.01 (1H), 1.21 (1H), 1.36 (1H), 1.48 (1H), 1.57 (1H), 2.08 (1H), 2.53 (3H), 2.96 (7H), 3.29 (3H), 3.41 (2H), 3.47 (2H), 3.67 (4H), 4.34 (2H), 4.50 (1H), 6.86 (2H), 7.14 (2H), 7.41 (1H), 8.11 (1H), 8.47 (1H), 8.56 (1H).

Ex.	Structure	IUPAC name	Analysis
54		2-([1-(4-bromobenzoyl)piperidin-4-yl]methyl)-N-(2-methoxyethyl)-4-methyl-2H-indazol-5-carboxamide	$^1\text{H-NMR}$ (300 MHz, DMSO-d_6): δ [ppm]=1.22 (2H), 1.36 (1H), 1.52 (1H), 2.26 (1H), 2.49 (3H), 2.72 (1H), 2.97 (1H), 3.24 (3H), 3.36 (2H), 3.42 (2H), 3.49 (1H), 4.31 (2H), 4.40 (1H), 7.14 (1H), 7.29 (2H), 7.38 (1H), 7.60 (2H), 8.12 (1H), 8.47 (1H).

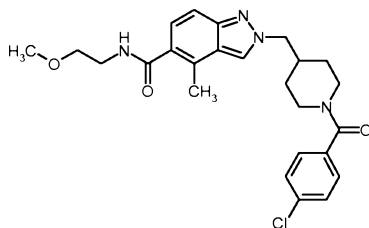
Example 55: N-(2-methoxyethyl)-4-methyl-2-([1-(4-(trifluoromethoxy)benzoyl)piperidin-4-yl]methyl)-2H-indazol-5-carboxamide



5 150 mg of the amine prepared in Example 1a were first dissolved in 1.5 ml pyridine. 101 mg of 4-(trifluoromethoxy)benzoyl chloride were then added and the mixture stirred for 30 min at RT. The reaction mixture was then treated with some toluene and concentrated. The residue was taken up in ethyl acetate and washed twice with water, twice with saturated sodium hydrogen carbonate solution (pH 9) and once with saturated sodium chloride solution. The organic phase
10 was dried over sodium sulphate, filtered and concentrated. The residue was purified chromatographically on the Biotage SP4. Gradient: ethyl acetate/methanol 0-10%. Yield: 118.2 mg of the title compound.

$^1\text{H-NMR}$ (300 MHz, DMSO-d_6): δ [ppm]= 1.17 - 1.30 (2H), 1.30 - 1.45 (1H), 1.45 - 1.62 (1H), 2.19 - 2.35 (1H), 2.49 (3H), 2.64 - 2.86 (1H), 2.86 - 3.07 (1H), 3.24 (3H), 3.31 - 3.56 (5H), 4.31
15 (2H), 4.36 - 4.49 (1H), 7.14 (1H), 7.35 - 7.42 (3H), 7.43 - 7.50 (2H), 8.11 (1H), 8.47 (1H).

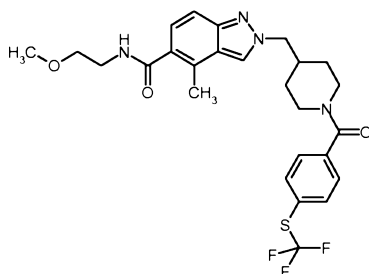
Example 56: 2-([1-(4-chlorobenzoyl)piperidin-4-yl]methyl)-N-(2-methoxyethyl)-4-methyl-2H-indazol-5-carboxamide



Analogously to Example 55, 183 mg of the title compound was obtained from 300 mg of the amine prepared in Example 1a and 157.4 mg of 4-chlorobenzoyl chloride.

¹H-NMR (400 MHz, DMSO-d₆): δ [ppm]= 1.10 - 1.29 (2H), 1.29 - 1.43 (1H), 1.44 - 1.61 (1H),
 2.20 - 2.34 (1H), 2.49 (3H), 2.66 - 2.83 (1H), 2.84 - 3.06 (1H), 3.25 (3H), 3.32 - 3.39 (2H), 3.40
 - 3.45 (2H), 3.45 - 3.55 (1H), 4.26 - 4.35 (2H), 4.35 - 4.46 (1H), 7.14 (1H), 7.32 - 7.41 (3H),
 7.47 (2H), 8.09 - 8.15 (1H), 8.47 (1H).

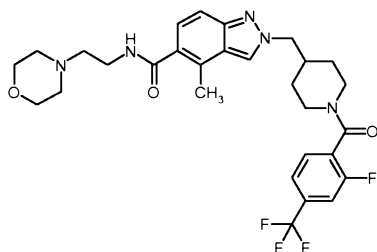
Example 57: N-(2-methoxyethyl)-4-methyl-2-[(1-{4-[(trifluoromethyl)sulphanyl]benzoyl}
 piperidin-4-yl)methyl]-2H-indazol-5-carboxamide



60 mg of the amine prepared in Example 1a were first dissolved in 2 ml DCM at 0°C. 0.034 ml of triethylamine and 43.2 mg of 4-[(trifluoromethyl)sulphanyl]benzoyl chloride were then added and the mixture stirred for 2 hrs at 0°C. The reaction mixture was then diluted with DCM and
 washed with 1-molar hydrochloric acid, saturated sodium hydrogen carbonate solution (pH 9) and saturated sodium chloride solution. The organic phase was dried over sodium sulphate, filtered and concentrated. The residue was purified chromatographically on the Biotage SP4. Gradient: DCM/Methanol 0-10%. The product fraction was taken up in ethyl acetate and
 extracted twice with saturated sodium hydrogen carbonate solution. The organic phase was concentrated and the residue again purified by HPLC. Yield: 26.5 mg of the title compound.

¹H-NMR (400 MHz, DMSO-d₆): δ [ppm]= 1.14 - 1.30 (2H), 1.31 - 1.42 (1H), 1.49 - 1.61 (1H),
 2.21 - 2.32 (1H), 2.49 (3H), 2.67 - 2.80 (1H), 2.93 - 3.05 (1H), 3.25 (3H), 3.36 (2H), 3.42 (3H),
 4.27 - 4.36 (2H), 4.38 - 4.48 (1H), 7.14 (1H), 7.38 (1H), 7.48 (2H), 7.75 (2H), 8.09 - 8.14 (1H),
 8.47 (1H).

Example 58: 2-({1-[2-fluoro-4-(trifluoromethyl)benzoyl]piperidin-4-yl}methyl)-4-methyl-N-(2-morpholinoethyl)-2H-indazol-5-carboxamide



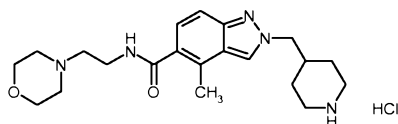
Analogously to Example 1, 34.6 mg of the title compound was obtained from 75 mg of the amine prepared in Example 58a and 37.0 mg of 2-fluoro-4-(trifluoromethyl)benzoic acid.

¹H-NMR (400 MHz, methanol-d₄): δ [ppm]= 1.24 - 1.43 (2H), 1.50 - 1.59 (1H), 1.65 - 1.73 (1H), 2.33 - 2.45 (1H), 2.65 (3H), 2.80 - 2.91 (1H), 3.05 - 3.18 (1H), 3.19 - 3.26 (2H), 3.39 - 3.44 (2H), 3.45 - 3.52 (1H), 3.63 - 3.70 (2H), 3.71 - 3.82 (4H), 4.06 - 4.14 (2H), 4.39 (2H), 4.62 - 4.70 (1H), 7.39 (1H), 7.47 (1H), 7.54 - 7.62 (3H), 8.45 (1H).

The starting material was prepared as follows:

10

Example 58a: 4-methyl-N-(2-morpholinoethyl)-2-(4-piperidylmethyl)-2H-indazol-5-carboxamide hydrochloride

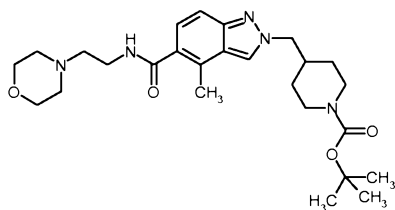


To 624.4 mg of 58b were added 2.9 ml of 4M hydrochloric acid in dioxan and 0.5 ml dioxan. An oily mass was formed, which dissolved on vigorous stirring and gentle warming. The mixture was stirred for 1 hr at ca. 30°C. The reaction mixture was concentrated. Yield: 980 mg of the title compound, which was further reacted without further purification.

¹H-NMR (300 MHz, DMSO-d₆): δ [ppm]= 1.33 - 1.51 (2H), 1.58 - 1.64 (1H), 2.17 - 2.31 (1H), 2.55 (3H), 2.70 - 2.86 (2H), 3.02 - 3.31 (7H), 3.43 - 3.51 (2H), 3.61 - 3.71 (2H), 3.72 - 3.88 (3H), 3.89 - 3.99 (2H), 4.30 - 4.36 (2H), 7.29 (1H), 7.40 (1H), 8.46 - 8.52 (1H), 8.54 - 8.58 (1H), 8.69 - 8.85 (1H), 8.96 - 9.10 (1H).

20

Example 58b: Tert-butyl 4-({4-methyl-5-[N-(2-morpholinoethyl)carbamoyl]-1H-indazol-2-yl}-methyl)piperidin-1-carboxylate



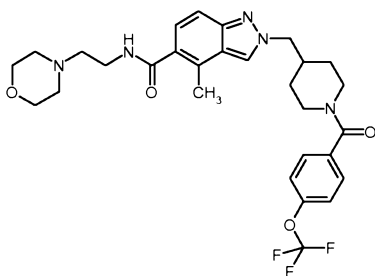
25

896 mg of 1c, 857 mg of 2-morpholinoethylamine, 579.3 mg of molybdenum hexacarbonyl, 63.6 mg of tri-tert-butylphosphine tetrafluoroborate and 205.8 mg of trans-bis(acetato)-bis[o-(di-

o-tolylphosphino)benzyl]dipalladium(II) were placed in a microwave tube and suspended in 18 ml THF. 1.0 ml of DBU was then added and the mixture was stirred for 20 mins at 125°C and 200 watts in the microwave. The reaction mixture was diluted with some ethyl acetate and firstly filtered through Celite. The filtrate was diluted with ethyl acetate and the organic phase washed twice with water and once with saturated sodium chloride solution. It was then dried over sodium sulphate, filtered and concentrated. The residue was chromatographed on the Biotage SP4. Gradient: ethyl acetate/methanol 0-10%. Yield: 624.4 mg of the title compound.

¹H-NMR (300 MHz, DMSO-d₆): δ [ppm]= 0.98 - 1.13 (2H), 1.34 (1H), 2.05 - 2.27 (2H), 2.33 - 2.41 (5H), 2.51 (3H), 2.56 - 2.73 (2H), 3.25 - 3.37 (2H), 3.51 - 3.57 (4H), 3.81 - 3.93 (2H), 4.28 (2H), 7.14 (1H), 7.36 - 7.41 (1H), 7.95 - 8.02 (1H), 8.46 (1H).

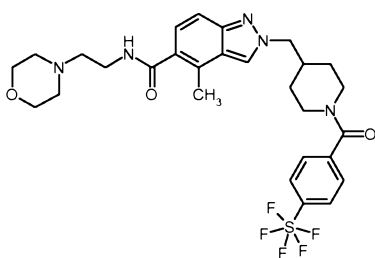
Example 59: 4-methyl-N-(2-morpholinoethyl)-2-(1-[4-(trifluoromethoxy)benzoyl]piperidin-4-yl)methyl)-2H-indazol-5-carboxamide



Analogously to Example 55, 10.1 mg of the title compound was obtained from 75 mg of the amine prepared in Example 58a and 43.9 mg of 4-(trifluoromethoxy)benzoyl chloride.

¹H-NMR (400 MHz, methanol-d₄): δ [ppm]= 1.24 - 1.44 (2H), 1.44 - 1.58 (1H), 1.59 - 1.74 (1H), 2.32 - 2.44 (1H), 2.51 - 2.58 (4H), 2.59 - 2.65 (5H), 2.77 - 2.90 (1H), 3.02 - 3.17 (1H), 3.53 (2H), 3.62 - 3.72 (5H), 4.35 - 4.41 (2H), 4.55 - 4.67 (1H), 7.29 (1H), 7.34 (2H), 7.43 (1H), 7.49 (2H), 8.39 (1H).

Example 60: 4-methyl-N-(2-morpholinoethyl)-2-(1-[4-(pentafluoro-λ⁶-sulphanyl)benzoyl]piperidin-4-yl)methyl)-2H-indazol-5-carboxamide

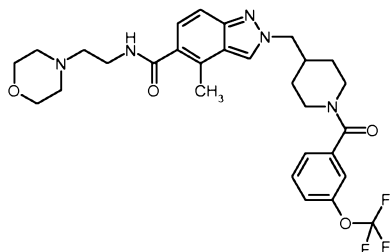


Analogously to Example 1, 14.0 mg of the title compound was obtained from 75 mg of the amine prepared in Example 58a and 44.1 mg of 4-(pentafluoro-λ⁶-sulphanyl)benzoic acid.

¹H-NMR (400 MHz, chloroform-d): δ [ppm]= 1.16 - 1.32 (1H), 1.33 - 1.48 (1H), 1.50 - 1.63 (1H), 1.71 - 1.83 (1H), 1.84 - 2.08 (2H), 2.44 (1H), 2.55 (4H), 2.60 - 2.71 (5H), 2.72 - 2.85 (1H), 2.96 - 3.10 (1H), 3.60 (2H), 3.67 - 3.78 (4H), 4.33 (2H), 4.71 - 4.81 (1H), 6.45 (1H), 7.34 (1H), 7.47 (2H), 7.54 (1H), 7.79 (2H), 7.96 (1H).

5

Example 61: 4-methyl-N-(2-morpholinoethyl)-2-($\{1-[3-(\text{trifluoromethoxy})\text{benzoyl}]piperidin-4\text{-yl}\}$ methyl)-2H-indazol-5-carboxamide



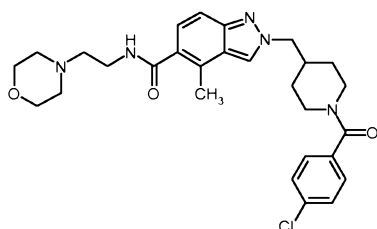
Analogously to Example 55, 18.1 mg of the title compound was obtained from 75 mg of the amine prepared in Example 58a and 43.9 mg of 3-(trifluoromethoxy)benzoyl chloride.

10

¹H-NMR (400 MHz, chloroform-d): δ [ppm]= 1.18 - 1.46 (2H), 1.49 - 1.63 (1H), 1.66 - 1.82 (1H), 2.37 - 2.49 (1H), 2.62 (3H), 2.67 (3H), 2.70 - 2.78 (4H), 2.79 - 2.86 (2H), 2.93 - 3.09 (1H), 3.66 - 3.74 (2H), 3.83 (4H), 4.32 (2H), 4.66 - 4.82 (1H), 6.83 - 6.96 (1H), 7.23 - 7.29 (2H), 7.29 - 7.34 (1H), 7.39 (1H), 7.43 (1H), 7.54 (1H), 7.96 (1H).

15

Example 62: 2-{[1-(4-chlorobenzoyl)piperidin-4-yl]methyl}-4-methyl-N-(2-morpholinoethyl)-2H-indazol-5-carboxamide



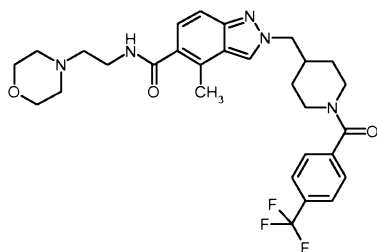
Analogously to Example 55, 14.9 mg of the title compound was obtained from 75 mg of the amine prepared in Example 58a and 34.2 mg of 4-chlorobenzoyl chloride.

20

¹H-NMR (400 MHz, methanol-d₄): δ [ppm]= 1.24 - 1.42 (2H), 1.46 - 1.58 (1H), 1.58 - 1.71 (1H), 2.31 - 2.43 (1H), 2.63 (5H), 2.65 (3H), 2.73 - 2.91 (1H), 3.00 - 3.15 (1H), 3.25 - 3.33 (2H), 3.63 - 3.77 (3H), 3.79 - 4.03 (3H), 4.38 (2H), 4.54 - 4.67 (1H), 7.38 (3H), 7.42 - 7.49 (3H), 8.44 (1H).

25

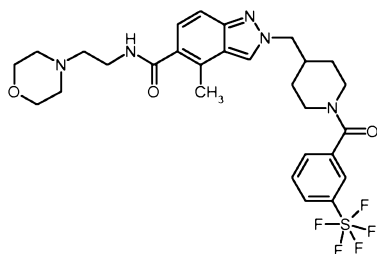
Example 63: 4-methyl-N-(2-morpholinoethyl)-2-($\{1-[4-(\text{trifluoromethyl})\text{benzoyl}]piperidin-4\text{-yl}\}$ methyl)-2H-indazol-5-carboxamide



Analogously to Example 1, 31.7 mg of the title compound was obtained from 75 mg of the amine prepared in Example 58a and 33.8 mg of 4-(trifluoromethyl)benzoic acid.

¹H-NMR (400 MHz, methanol-d₄): δ [ppm]= 1.24 - 1.43 (2H), 1.45 - 1.57 (1H), 1.63 - 1.73 (1H), 2.33 - 2.45 (1H), 2.66 (3H), 2.79 - 2.90 (1H), 3.04 - 3.17 (1H), 3.18 - 3.27 (2H), 3.39 - 3.45 (2H), 3.56 - 3.70 (3H), 3.76 (4H), 4.06 - 4.14 (2H), 4.36 - 4.42 (2H), 4.59 - 4.68 (1H), 7.39 (1H), 7.47 (1H), 7.57 (2H), 7.73 (2H), 8.45 (1H).

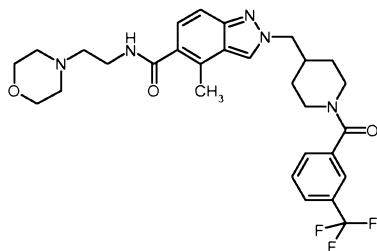
Example 64: 4-methyl-N-(2-morpholinoethyl)-2-({1-[4-(pentafluoro-λ⁶-sulphanyl)benzoyl]piperidin-4-yl}methyl)-2H-indazol-5-carboxamide



Analogously to Example 1, 24.7 mg of the title compound was obtained from 75 mg of the amine prepared in Example 58a and 44.1 mg of 3-(pentafluoro-λ⁶-sulphanyl)benzoic acid.

¹H-NMR (400 MHz, methanol-d₄): δ [ppm]= 1.27 - 1.47 (2H), 1.48 - 1.60 (1H), 1.60 - 1.74 (1H), 2.31 - 2.46 (1H), 2.66 (3H), 2.78 - 2.93 (1H), 3.04 - 3.18 (1H), 3.18 - 3.26 (2H), 3.39 - 3.43 (2H), 3.57 - 3.70 (3H), 3.72 - 3.82 (4H), 4.06 - 4.14 (2H), 4.39 (2H), 4.55 - 4.67 (1H), 7.38 (1H), 7.47 (1H), 7.60 - 7.67 (2H), 7.82 - 7.86 (1H), 7.89 - 7.94 (1H), 8.45 (1H).

Example 65: 4-methyl-N-(2-morpholinoethyl)-2-({1-[3-(trifluoromethyl)benzoyl]piperidin-4-yl}methyl)-2H-indazol-5-carboxamide



Analogously to Example 1, 14.0 mg of the title compound was obtained from 75 mg of the amine prepared in Example 58a and 33.8 mg of 3-(trifluoromethyl)benzoic acid.

¹H-NMR (400 MHz, methanol-d₄): δ [ppm]= 1.28 - 1.45 (2H), 1.47 - 1.59 (1H), 1.59 - 1.73 (1H), 2.32 - 2.45 (1H), 2.66 (3H), 2.79 - 2.93 (1H), 3.05 - 3.18 (1H), 3.19 - 3.27 (2H), 3.39 - 3.45 (2H), 3.58 - 3.70 (3H), 3.72 - 3.82 (4H), 4.06 - 4.14 (2H), 4.39 (2H), 4.57 - 4.68 (1H), 7.39 (1H), 7.47 (1H), 7.64 (2H), 7.67 - 7.70 (1H), 7.73 - 7.78 (1H), 8.45 (1H).

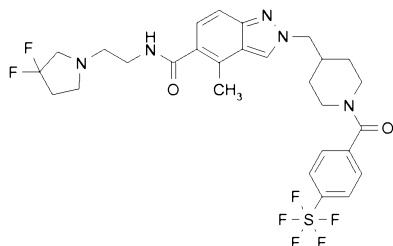
5

The following compounds were prepared analogously:

Ex.	Structure	IUPAC name	Analysis
66		2-({1-[(4'-fluorobiphenyl-4-yl)-carbonyl]piperidin-4-yl}methyl)-4-methyl-N-(2-morpholinoethyl)-2H-indazol-5-carboxamide	¹ H-NMR (400 MHz, methanol-d ₄): δ [ppm]= 1.35 (2H), 1.53 (1H), 1.66 (1H), 2.40 (1H), 2.66 (3H), 2.85 (1H), 3.11 (1H), 3.24 (2H), 3.42 (2H), 3.65 (2H), 3.76 (5H), 4.08 (2H), 4.40 (2H), 4.63 (1H), 7.17 (2H), 7.38 (1H), 7.47 (3H), 7.65 (4H), 8.45 (1H).
67		2-({1-[4-(4-fluorophenoxy)benzoyl]piperidin-4-yl}methyl)-4-methyl-N-(2-morpholinoethyl)-2H-indazol-5-carboxamide	¹ H-NMR (400 MHz, methanol-d ₄): δ [ppm]= 1.33 (2H), 1.68 (2H), 2.38 (1H), 2.66 (3H), 2.84 (1H), 3.11 (1H), 3.25 (2H), 3.42 (2H), 3.65 (2H), 3.76 (5H), 4.11 (2H), 4.38 (2H), 4.59 (1H), 6.98 (2H), 7.04 (2H), 7.11 (2H), 7.38 (3H), 7.47 (1H), 8.44 (1H).

Example 68: N-[2-(3,3-difluoropyrrolidin-1-yl)ethyl]-4-methyl-2-({1-[4-(pentafluoro-λ⁶-sulphanyl)benzoyl]piperidin-4-yl}methyl)-2H-indazol-5-carboxamide

10

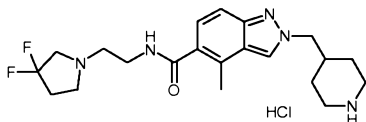


Analogously to Example 57, 61.7 mg of the title compound was obtained from 266.5 mg of the amine prepared in Example 68a and 150.3 mg of 4-(pentafluoro-λ⁶-sulphanyl)benzoyl chloride.

¹H-NMR (300 MHz, chloroform-d): δ [ppm]= 1.13 - 1.46 (2H), 1.48 - 1.65 (1H), 1.66 - 1.87 (1H), 2.26 - 2.50 (3H), 2.66 (3H), 2.71 - 3.23 (8H), 3.57 - 3.72 (3H), 4.25 - 4.42 (2H), 4.67 - 4.84 (1H), 6.40 - 6.61 (1H), 7.38 (1H), 7.47 (2H), 7.53 (1H), 7.79 (2H), 7.96 (1H).

5 The starting material was prepared as follows:

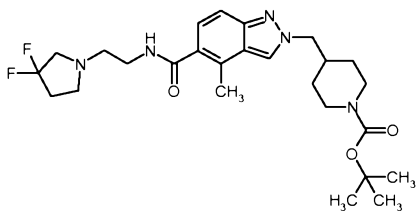
Example 68a: *N*-[2-(3,3-difluoropyrrolidin-1-yl)ethyl]-4-methyl-2-(4-piperidylmethyl)-2H-indazol-5-carboxamide hydrochloride



10 To 416.6 mg of 68b were added 1.85 ml of 4M hydrochloric acid in dioxan and 0.5 ml dioxan. An oily mass was formed, which dissolved on vigorous stirring and gentle warming. The mixture was stirred for 1 hr at ca. 30°C. The reaction mixture was concentrated. Yield: 439.2 mg of the title compound, which was further reacted without further purification.

¹H-NMR (400 MHz, DMSO-d₆): δ [ppm]= 1.36 - 1.48 (2H), 1.54 - 1.63 (2H), 2.18 - 2.28 (1H),
15 2.40 - 2.45 (2H), 2.55 (3H), 2.72 - 2.83 (2H), 3.14 - 3.22 (2H), 3.38 - 3.44 (2H), 3.56 - 3.63 (2H), 3.65 - 3.95 (2H), 4.11 - 4.21 (2H), 7.32 (1H), 7.40 (1H), 8.43 - 8.48 (1H), 8.57 (1H), 8.68 - 8.82 (1H), 8.96 - 9.07 (1H).

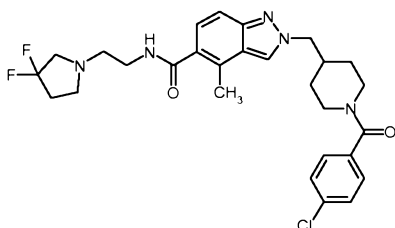
Example 68b: Tert-butyl 4-[(5-{*N*-[2-(3,3-difluoropyrrolidin-1-yl)ethyl]carbamoyl}-4-methyl-2H-indazol-2-yl)methyl]-piperidin-1-carboxylate



220 mg of 1c, 242.7 mg of 2-(3,3-difluoro-pyrrolidin-1-yl)ethylamine, 142.2 mg of molybdenum hexacarbonyl, 15.6 mg of tri-tert-butylphosphine tetrafluoroborate and 50.5 mg of trans-
25 bis(acetato)-bis-[o-(di-o-tolylphosphino)benzyl]dipalladium(II) were placed in a microwave tube and suspended in 4.4 ml THF. 0.24 ml of DBU were then added and the mixture stirred for 20 mins at 125°C and 200 watts in the microwave. The reaction mixture was diluted with some ethyl acetate and firstly filtered through Celite. The filtrate was diluted with ethyl acetate and the organic phase washed twice with water and once with saturated sodium chloride solution. It was
30 dried over sodium sulphate, filtered and concentrated. The residue (209.3 mg) was chromatographed on the Biotage SP4. Gradient: DCM/methanol 0-10%. Yield: 53.4 mg of the title compound.

¹H-NMR (400 MHz, DMSO-d₆): δ [ppm]= 1.00 - 1.12 (2H), 1.32 - 1.42 (2H), 1.34 (9H), 2.07 - 2.25 (3H), 2.50 (3H), 2.57 (2H), 2.60 - 2.68 (2H), 2.72 (2H), 2.91 (2H), 3.30 - 3.35 (2H), 3.83 - 3.92 (2H), 4.28 (2H), 7.15 (1H), 7.39 (1H), 8.04 - 8.09 (1H), 8.47 (1H).

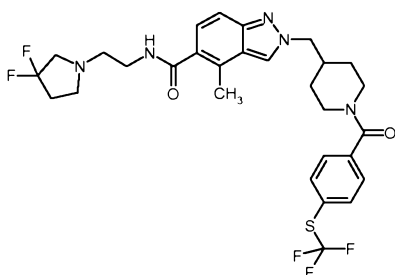
- 5 **Example 69:** 2-{[1-(4-chlorobenzoyl)piperidin-4-yl]methyl}-N-[2-(3,3-difluoropyrrolidin-1-yl)ethyl]-4-methyl-2H-indazol-5-carboxamide



Analogously to Example 57, 79.9 mg of the title compound was obtained from 125.0 mg of the amine prepared in Example 68a and 54.5 mg of 4-chlorobenzoyl chloride.

- 10 ¹H-NMR (300 MHz, chloroform-d): δ [ppm]= 1.13 - 1.35 (2H), 1.46 - 1.84 (2H), 2.27 - 2.50 (3H), 2.66 (3H), 2.80 - 3.26 (8H), 3.59 - 3.83 (3H), 4.25 - 4.39 (2H), 4.62 - 4.85 (1H), 6.41 - 6.69 (1H), 7.30 - 7.40 (6H), 7.55 (1H), 7.96 (1H).

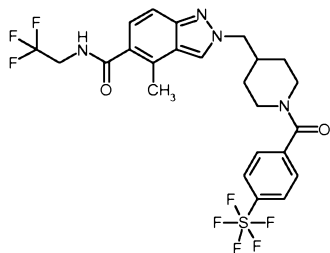
- 15 **Example 70:** N-[2-(3,3-difluoropyrrolidin-1-yl)ethyl]-4-methyl-2-[(1-{4-[(trifluoromethyl)sulphonyl]benzoyl}piperidin-4-yl)methyl]-2H-indazol-5-carboxamide



Analogously to Example 55, 15.2 mg of the title compound was obtained from 23.4 mg of the amine prepared in Example 68a and 14.0 mg of 4-[(trifluoromethyl)sulphonyl]benzoyl chloride.

- 20 ¹H-NMR (400 MHz, chloroform-d): δ [ppm]= 1.23 - 1.26 (1H), 1.33 - 1.46 (1H), 1.48 - 1.61 (1H), 1.77 (1H), 2.20 - 2.35 (2H), 2.36 - 2.49 (1H), 2.64 (3H), 2.73 - 2.85 (5H), 2.90 - 3.10 (3H), 3.56 (2H), 3.63 - 3.76 (1H), 4.26 - 4.39 (2H), 4.70 - 4.82 (1H), 6.28 (1H), 7.33 (1H), 7.42 (2H), 7.53 (1H), 7.68 (2H), 7.96 (1H).

- 25 **Example 71:** 4-methyl-2-[(1-[4-(pentafluoro-λ⁶-sulphonyl)benzoyl]piperidin-4-yl)methyl]-N-(2,2,2-trifluoroethyl)-2H-indazol-5-carboxamide



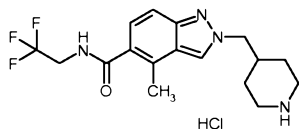
Analogously to Example 1, 124.8 mg of the title compound was obtained from 146.9 mg of the amine prepared in Example 71a and 93.3 mg of 4-(pentafluoro- λ^6 -sulphonyl)benzoic acid.

¹H-NMR (300 MHz, DMSO-*d*₆): δ [ppm]= 1.12 - 1.31 (2H), 1.31 - 1.45 (1H), 1.47 - 1.63 (1H),
 2.20 - 2.36 (1H), 2.50 (3H), 2.67 - 2.83 (1H), 2.91 - 3.07 (1H), 3.36 - 3.47 (1H), 3.96 - 4.10
 (2H), 4.29 - 4.37 (2H), 4.37 - 4.48 (1H), 7.17 (1H), 7.43 (1H), 7.56 (2H), 7.94 (2H), 8.50 - 8.54
 (1H), 8.75 - 8.83 (1H).

The starting material was prepared as follows:

10

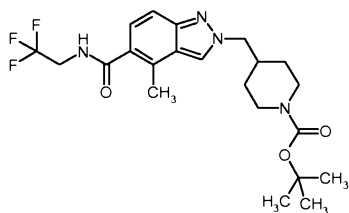
Example 71a: 4-methyl-2-(4-piperidylmethyl)-N-(2,2,2-trifluoroethyl)-2H-indazol-5-carboxamide hydrochloride



To 425.2 mg of 71b were added 2.35 ml of 4M hydrochloric acid in dioxan and 0.5 ml dioxan.
 15 An oily mass was formed, which dissolved on vigorous stirring and gentle warming. The mixture was stirred for 1 hr at ca. 30°C. The reaction mixture was concentrated. Yield: 440.6 mg of the title compound, which was further reacted without further purification.

¹H-NMR (400 MHz, DMSO-*d*₆): δ [ppm]= 1.35 - 1.49 (2H), 1.53 - 1.62 (2H), 2.20 - 2.32 (1H),
 2.51 (3H), 2.72 - 2.85 (2H), 3.14 - 3.23 (2H), 3.97 - 4.09 (2H), 4.34 (2H), 7.18 (1H), 7.43 (1H),
 20 8.58 (1H), 8.64 - 8.77 (1H), 8.78 - 8.85 (1H), 8.93 - 9.08 (1H).

Example 71b: Tert-butyl 4-({4-methyl-5-[N-(2,2,2-trifluoroethyl)carbamoyl]-2H-indazol-2-yl}-methyl)piperidin-1-carboxylate

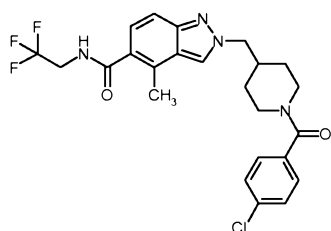


25 2820 mg of 1c, 2052 mg of 2,2,2-trifluoroethylamine, 1823.2 mg of molybdenum hexacarbonyl, 200.4 mg of tri-tert-butylphosphine tetrafluoroborate and 647.5 mg of trans-bis(acetato)-bis[o-(di-o-tolylphosphino)-benzyl]dipalladium(II) were placed in a microwave tube and suspended in

56 ml THF. 3.1 ml of DBU were then added and the mixture was stirred for 20 mins at 125°C and 200 watts in the microwave. The reaction mixture was diluted with some ethyl acetate, washed twice with water and once with saturated sodium chloride solution. It was dried over sodium sulphate, filtered and concentrated. The residue was chromatographed on the Biotage SP4. Gradient: hexane/ethyl acetate 0-100%. Yield: 475.2 mg of the title compound.

¹H-NMR (300 MHz, DMSO-d₆): δ [ppm]= 0.99 - 1.17 (2H), 1.30 - 1.44 (11H), 2.05 - 2.21 (1H), 2.50 (3H), 2.54 - 2.73 (2H), 3.81 - 3.94 (2H), 3.95 - 4.10 (2H), 4.29 (2H), 7.18 (1H), 7.43 (1H), 8.51 (1H), 8.74 - 8.83 (1H).

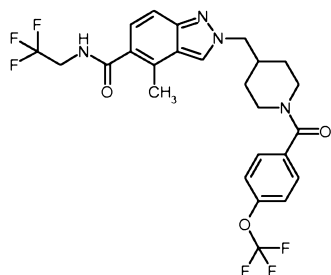
Example 72: 2-([1-(4-chlorobenzoyl)piperidin-4-yl]methyl)-4-methyl-N-(2,2,2-trifluoroethyl)-2H-indazol-5-carboxamide



Analogously to Example 1, 97.8 mg of the title compound was obtained from 146.9 mg of the amine prepared in Example 71a and 58.8 mg of 4-chlorobenzoic acid.

¹H-NMR (300 MHz, DMSO-d₆): δ [ppm]= 1.11 - 1.29 (2H), 1.31 - 1.45 (1H), 1.45 - 1.61 (1H), 2.20 - 2.35 (1H), 2.50 (3H), 2.63 - 2.84 (1H), 2.85 - 3.08 (1H), 3.42 - 3.59 (1H), 3.96 - 4.10 (2H), 4.29 - 4.47 (3H), 7.17 (1H), 7.36 (2H), 7.40 - 7.50 (3H), 8.52 (1H), 8.75 - 8.82 (1H).

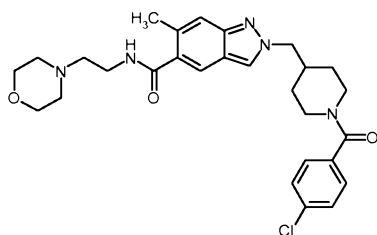
Example 73: 4-methyl-N-(2,2,2-trifluoroethyl)-2-([1-(4-(trifluoromethoxy)benzoyl)piperidin-4-yl]methyl)-2H-indazol-5-carboxamide



Analogously to Example 1, 105.4 mg of the title compound was obtained from 146.9 mg of the amine prepared in Example 71a and 77.5 mg of 4-(trifluoromethoxy)benzoic acid.

¹H-NMR (300 MHz, DMSO-d₆): δ [ppm]= 1.12 - 1.30 (2H), 1.31 - 1.46 (1H), 1.47 - 1.64 (1H), 2.20 - 2.36 (1H), 2.50 (3H), 2.66 - 2.85 (1H), 2.86 - 3.09 (1H), 3.40 - 3.55 (1H), 3.96 - 4.10 (2H), 4.29 - 4.48 (3H), 7.17 (1H), 7.36 - 7.50 (5H), 8.52 (1H), 8.75 - 8.82 (1H).

Example 74: 2- {[1-(4-chlorobenzoyl)piperidin-4-yl]methyl}-6-methyl-N-(2-morpholinoethyl)-2H-indazol-5-carboxamide



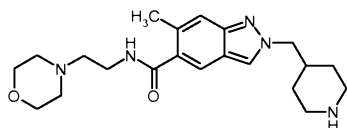
5 Analogously to Example 55, 30 mg of the title compound was obtained from 79 mg of the amine prepared in Example 74a and 26 mg of 4-chlorobenzoyl chloride.

¹NMR (400 MHz, methanol-d₄): δ [ppm]= 1.31 (2H), 1.50 (1H), 1.65 (1H), 2.35 (1H), 2.47 (3H), 2.63 (6H), 2.81 (1H), 3.07 (1H), 3.53 (2H), 3.71 (5H), 4.34 (2H), 4.59 (1H), 7.36 (2H), 7.43 (3H), 7.75 (1H), 8.24 (1H).

10

The starting material was prepared as follows:

Example 74a: 6-methyl-N-(2-morpholinoethyl)-2-(4-piperidylmethyl)-2H-indazol-5-carboxamide



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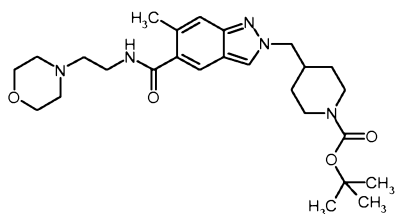
768 mg of (1.58 mmol) of tert-butyl carbamate 74b were dissolved in 4.0 ml 4M hydrochloric acid in dioxan and stirred under nitrogen at room temperature. A further 0.8 ml 4M hydrochloric acid in dioxan were added and the mixture stirred at room temperature. The reaction solution was concentrated and yielded 760 mg of the title compound, which was used in the next reaction without further purification.

20

¹H-NMR (400 MHz, DMSO-d₆): δ [ppm]= 1.34 - 1.50 (2H), 1.53 - 1.67 (2H), 2.21 - 2.30 (1H), 2.41 (3H), 2.74 - 2.89 (2H), 3.07 - 3.33 (8H), 3.62 - 3.71 (2H), 3.77 - 3.90 (2H), 3.90 - 4.03 (2H), 4.35 (2H), 7.39 (1H), 7.88 (1H), 8.44 (1H), 8.57 (1H), 8.62 - 8.79 (1H), 8.87 - 9.02 (1H), 11.17 (1H).

25

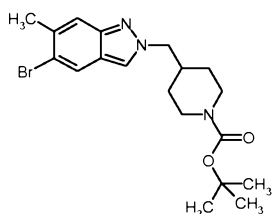
Example 74b: Tert-butyl 4-({6-methyl-5-[N-(2-morpholinoethyl)carbamoyl]-2H-indazol-2-yl} -methyl)piperidin-1-carboxylate



3.00 g (7.35 mmol) of 5-bromoindazole 74c and 2.87 g (22.04 mmol) of 2-morpholinoethylamine were dissolved in 134 ml dioxan and 1.94 g (7.35 mmol) of molybdenum hexacarbonyl, 167 mg (1.47 mmol) of palladium acetate, 213 mg (0.74 mmol) of tributylphosphonium tetrafluoroborate, 2.34 g (22.0 mmol) of sodium carbonate and 2 drops of water were added. The reaction mixture was heated to 125°C under nitrogen and stirred at this temperature for 2.5 hrs. For the work-up, the suspension was filtered over Celite, rewashed with dioxan, concentrated in vacuo and dried. The crude product was separated by column chromatography. Yield: 518 mg of the title compound.

¹H-NMR (300 MHz, DMSO-d₆): δ [ppm]= 0.93 - 1.16 (2H), 1.26-1.37 (2H), 1.34 (9H), 1.99 - 2.17 (1H), 2.32 - 2.43 (10H), 2.54 - 2.72 (2H), 3.34 (1H), 3.48 - 3.59 (4H), 3.86 (2H), 4.26 (2H), 7.35 (1H), 7.63 (1H), 8.09 (1H), 8.32 (1H).

Example 74c: Tert-butyl 4-[(5-bromo-6-methyl-2H-indazol-2-yl)methyl]piperidin-1-carboxylate



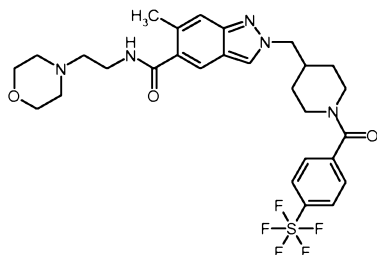
10.0 g (47.4 mmol) of 5-bromo-4-methyl-1H-indazole and 21.0 g (56.9 mmol) of tert-butyl 4-[(tosyloxy)methyl]piperidin-1-carboxylate were dissolved in 726 ml DMF. To this were added 21.0 g (56.9 mmol) of tetrabutylammonium iodide and 18.5 g (56.9 mmol) of caesium carbonate and the reaction mixture was heated under nitrogen at 80°C for 1.5 hrs. For the work-up, it was treated with water and ethyl acetate, the organic phase separated and the aqueous phase extracted several times with ethyl acetate. The organic phases were washed with saturated sodium chloride solution, dried over sodium sulphate and concentrated in vacuo. After purification by column chromatography, this yielded the title compound in 5 g yield.

¹H-NMR (600 MHz, chloroform-d): δ [ppm]= 1.16 - 1.30 (2H), 1.45 (9H), 1.54 (2H), 2.22 - 2.33 (1H), 2.51 (3H), 2.67 (2H), 4.03 - 4.17 (2H), 4.27 - 4.32 (2H), 7.60 (1H), 7.81 (1H), 7.90 (1H).

The following compounds were prepared analogously:

Ex.	Structure	IUPAC name	Analysis
75		6-methyl-N-(2-morpholinoethyl)-2-((1-[4-(trifluoromethoxy)benzoyl]piperidin-4-yl)methyl)-2H-indazol-5-carboxamide	¹ H-NMR (400 MHz, methanol-d ₄): δ [ppm]= 1.32 (2H), 1.51 (1H), 1.65 (1H), 2.36 (1H), 2.47 (3H), 2.60 (6H), 2.83 (1H), 3.10 (1H), 3.52 (2H), 3.70 (5H), 4.35 (2H), 4.61 (1H), 7.37 (3H), 7.49 (2H), 7.74 (1H), 8.24 (1H).
76		6-methyl-N-(2-morpholinoethyl)-2-((1-[3-(trifluoromethoxy)benzoyl]piperidin-4-yl)methyl)-2H-indazol-5-carboxamide	¹ H-NMR (400 MHz, methanol-d ₄): δ [ppm]= 1.32 (2H), 1.49 (1H), 1.65 (1H), 2.36 (1H), 2.46 (3H), 2.59 (6H), 2.83 (1H), 3.10 (1H), 3.51 (2H), 3.69 (5H), 4.35 (2H), 4.60 (1H), 7.33 (2H), 7.40 (2H), 7.54 (1H), 7.74 (1H), 8.24 (1H).

Example 77: 6-methyl-N-(2-morpholinoethyl)-2-((1-[4-(pentafluoro-λ⁶-sulphanyl)benzoyl]piperidin-4-yl)methyl)-2H-indazol-5-carboxamide



5

Analogously to Example 1, 23 mg of the title compound was obtained from 79 mg of the amine prepared in Example 74a and 47 mg of the acid.

¹H-NMR (400 MHz, methanol-d₄): δ [ppm]= 1.34 (2H), 1.52 (1H), 1.66 (1H), 2.37 (1H), 2.49 (3H), 2.84 (1H), 3.10 (1H), 3.25 (2H), 3.42 (2H), 3.63 (3H), 3.75 (4H), 4.10 (2H), 4.36 (2H), 4.62 (1H), 7.43 (1H), 7.56 (2H), 7.89 (3H), 8.28 (1H).

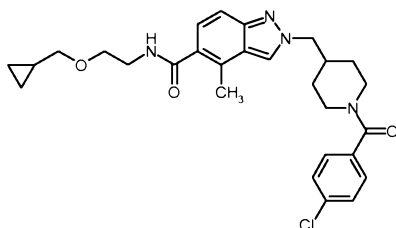
10

The following compounds were prepared analogously:

Ex.	Structure	IUPAC name	Analysis
78		2-({1-[4-(4-fluorophenoxy)benzoyl]-piperidin-4-yl}-methyl)-6-methyl-N-(2-morpholinoethyl)-2H-indazol-5-carboxamide	¹ H-NMR (400 MHz, methanol-d ₄): δ [ppm]= 1.31 (2H), 1.58 (2H), 2.35 (1H), 2.49 (3H), 2.40-4.20 (15H), 4.35 (2H), 4.58 (1H), 6.97 (2H), 7.04 (2H), 7.11 (2H), 7.37 (2H), 7.43 (1H), 7.87 (1H), 8.27 (1H).
79		6-methyl-N-(2-morpholinoethyl)-2-({1-[4-(trifluoromethyl)benzoyl]-piperidin-4-yl}-methyl)-2H-indazol-5-carboxamide	¹ H-NMR (300 MHz, methanol-d ₄): δ [ppm]= 1.34 (2H), 1.51 (1H), 1.67 (1H), 2.38 (1H), 2.50 (3H), 2.85 (1H), 3.10 (1H), 3.25 (2H), 3.43 (2H), 3.64 (3H), 3.76 (4H), 4.10 (2H), 4.38 (2H), 4.64 (1H), 7.44 (1H), 7.57 (2H), 7.76 (2H), 7.89 (1H), 8.31 (1H).
80		2-({1-[2-fluoro-4-(trifluoromethyl)benzoyl]piperidin-4-yl}-methyl)-6-methyl-N-(2-morpholinoethyl)-2H-indazol-5-carboxamide	¹ H-NMR (300 MHz, methanol-d ₄): δ [ppm]= 1.34 (2H), 1.54 (1H), 1.68 (1H), 2.38 (1H), 2.50 (3H), 2.86 (1H), 3.12 (1H), 3.26 (2H), 3.43 (3H), 3.66 (2H), 3.76 (4H), 4.11 (2H), 4.37 (2H), 4.67 (1H), 7.44 (1H), 7.59 (3H), 7.89 (1H), 8.31 (1H).
81		6-methyl-N-(2-morpholinoethyl)-2-({1-[3-(pentafluoro-λ ⁶ -sulphonyl)benzoyl]-piperidin-4-yl}-methyl)-2H-indazol-5-carboxamide	¹ H-NMR (300 MHz, methanol-d ₄): δ [ppm]= 1.35 (2H), 1.53 (1H), 1.65 (1H), 2.38 (1H), 2.50 (3H), 2.86 (1H), 3.14 (1H), 3.26 (2H), 3.43 (2H), 3.66 (3H), 3.76 (4H), 4.11 (2H), 4.37 (2H), 4.62 (1H), 7.44 (1H), 7.63 (2H), 7.89 (3H), 8.30 (1H).

Ex.	Structure	IUPAC name	Analysis
82		6-methyl-N-(2-morpholinoethyl)-2-((1-[3-(trifluoromethyl)benzoyl]piperidin-4-yl)methyl)-2H-indazol-5-carboxamide	¹ H-NMR (300 MHz, methanol-d ₄): δ [ppm]= 1.35 (2H), 1.53 (1H), 1.65 (1H), 2.38 (1H), 2.50 (3H), 2.85 (1H), 3.12 (1H), 3.26 (2H), 3.43 (2H), 3.66 (3H), 3.76 (4H), 4.11 (2H), 4.38 (2H), 4.63 (1H), 7.45 (1H), 7.66 (3H), 7.77 (1H), 7.90 (1H), 8.33 (1H).
83		2-((1-[(4'-fluorobiphenyl-4-yl)carbonyl]piperidin-4-yl)methyl)-6-methyl-N-(2-morpholinoethyl)-2H-indazol-5-carboxamide	¹ H-NMR (300 MHz, methanol-d ₄): δ [ppm]= 1.35 (2H), 1.53 (1H), 1.65 (1H), 2.39 (1H), 2.50 (3H), 2.85 (1H), 3.12 (1H), 3.26 (2H), 3.42 (2H), 3.63 (3H), 3.74 (4H), 4.08 (2H), 4.37 (2H), 4.64 (1H), 7.18 (2H), 7.46 (3H), 7.66 (4H), 7.88 (1H), 8.30 (1H).

Example 84: 2-{{1-(4-chlorobenzoyl)piperidin-4-yl)methyl}-N-[2-(cyclopropylmethoxy)ethyl]-4-methyl-2H-indazol-5-carboxamide



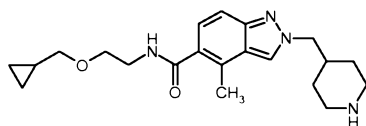
- 5 Analogously to Example 1, 38 mg of the title compound was obtained from 75 mg of the amine prepared in Example 84a and 29 mg of 4-chlorobenzoic acid.

¹H-NMR (400 MHz, DMSO-d₆): δ [ppm]= 0.14 (2H), 0.42 (2H), 0.97 (1H), 1.21 (2H), 1.36 (1H), 1.52 (1H), 2.27 (1H), 2.50 (3H), 2.72 (1H), 2.97 (1H), 3.23 (2H), 3.36 (2H), 3.48 (3H), 4.31 (2H), 4.40 (1H), 7.14 (1H), 7.36 (3H), 7.46 (2H), 8.12 (1H), 8.47 (1H).

10

The starting material was prepared as follows:

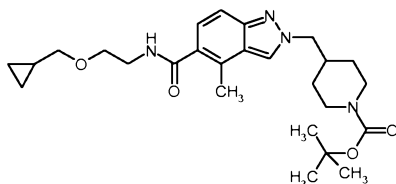
Example 84a: N-[2-(cyclopropylmethoxy)ethyl]-4-methyl-2-(4-piperidylmethyl)-2H-indazol-5-carboxamide



To 781 mg of 84b were added 3.7 ml of 4M hydrochloric acid in dioxan and 0.5 ml dioxan. The mixture was stirred for 30 mins at ca. 30°C. The reaction mixture was concentrated, taken up in some toluene and again concentrated. Yield: 751 mg of the title compound, which was further reacted without further purification.

¹H-NMR (400 MHz, DMSO-d₆): δ [ppm]= 0.14 (2H), 0.42 (2H), 0.97 (1H), 1.43 (2H), 1.58 (2H), 2.26 (1H), 2.50 (3H), 2.65 (1H), 2.78(2H), 3.18 (2H), 3.22 (2H), 3.36 (2H), 3.49 (2H), 4.33 (2H), 7.16 (2H), 7.38 (1H), 8.11 (1H), 8.53 (1H), 8.80 (1H), 9.06 (1H).

- 10 **Example 84b:** Tert-butyl 4-[(5-{N-[2-(cyclopropylmethoxy)ethyl]carbamoyl}-4-methyl-2H-indazol-2-yl)methyl]piperidin-1-carboxylate



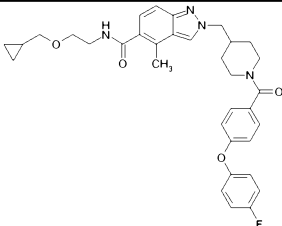
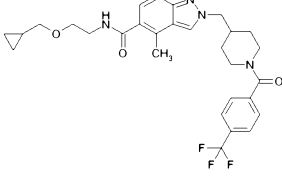
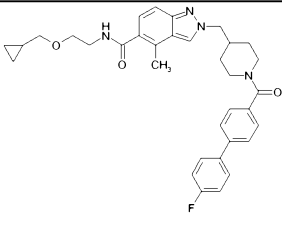
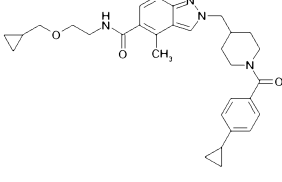
500 mg of 1d was reacted with 203 mg of amine analogously to 1b version B. Yield: 781 mg of the title compound.

- 15 ¹H-NMR (300 MHz, DMSO-d₆): δ [ppm]= 0.98 - 1.13 (2H), 1.34 (1H), 2.05 - 2.27 (2H), 2.33 - 2.41 (5H), 2.51 (3H), 2.56 - 2.73 (2H), 3.25 - 3.37 (2H), 3.51 - 3.57 (4H), 3.81 - 3.93 (2H), 4.28 (2H), 7.14 (1H), 7.36 - 7.41 (1H), 7.95 - 8.02 (1H), 8.46 (1H).

The following compounds were prepared analogously:

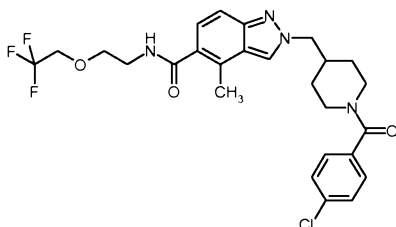
20

Ex.	Structure	IUPAC name	Analysis
85		N-[2-(cyclopropylmethoxy)ethyl]-4-methyl-2- {[1-(4-methylbenzoyl)-piperidin-4-yl]-methyl}-2H-indazol-5-carboxamide	¹ H-NMR (400 MHz, DMSO-d ₆): δ [ppm]= 0.14 (2H), 0.42 (2H), 0.97 (1H), 1.19 (2H), 1.37 (1H), 1.50 (1H), 2.26 (1H), 2.29 (3H), 2.50 (3H), 2.72 (1H), 2.94 (1H), 3.23 (2H), 3.36 (2H), 3.48 (2H), 3.57 (1H), 4.30 (2H), 4.39 (1H), 7.14 (1H), 7.21 (4H), 7.38 (1H), 8.12 (1H), 8.47 (1H).

Ex.	Structure	IUPAC name	Analysis
86		N-[2-(cyclopropylmethoxy)ethyl]-2-({1-[4-(4-fluorophenoxy)benzoyl]piperidin-4-yl} methyl)-4-methyl-2H-indazol-5-carboxamide	¹ H-NMR (400 MHz, DMSO-d ₆): δ [ppm]= 0.14 (2H), 0.42 (2H), 0.97 (1H), 1.19 (2H), 1.45 (2H), 2.26 (1H), 2.50 (3H), 2.75 (1H), 2.96 (1H), 3.23 (2H), 3.36 (2H), 3.48 (2H), 3.62 (1H), 4.31 (2H), 4.39 (1H), 6.95 (2H), 7.12 (3H), 7.23 (2H), 7.36 (3H), 8.12 (1H), 8.47 (1H).
87		N-[2-(cyclopropylmethoxy)ethyl]-4-methyl-2-({1-[4-(trifluoromethyl)benzoyl]piperidin-4-yl} methyl)-2H-indazol-5-carboxamide	¹ H-NMR (400 MHz, DMSO-d ₆): δ [ppm]= 0.14 (2H), 0.42 (2H), 0.96 (1H), 1.22 (2H), 1.36 (1H), 1.56 (1H), 2.28 (1H), 2.50 (3H), 2.74 (1H), 2.99 (1H), 3.23 (2H), 3.36 (2H), 2.43 (1H), 3.48 (2H), 4.31 (2H), 4.43 (1H), 7.15 (1H), 7.38 (1H), 7.55 (2H), 7.77 (2H), 8.12 (1H), 8.47 (1H).
88		N-[2-(cyclopropylmethoxy)ethyl]-2-({1-[(4'-fluorobiphenyl-4-yl)carbonyl]piperidin-4-yl} methyl)-4-methyl-2H-indazol-5-carboxamide	¹ H-NMR (400 MHz, DMSO-d ₆): δ [ppm]= 0.14 (2H), 0.42 (2H), 0.96 (1H), 1.23 (2H), 1.39 (1H), 1.55 (1H), 2.28 (1H), 2.50 (3H), 2.74 (1H), 3.01 (1H), 3.23 (2H), 3.36 (2H), 3.48 (2H), 3.61 (1H), 4.33 (2H), 4.44 (1H), 7.15 (1H), 7.28 (2H), 7.40 (3H), 7.69 (4H), 8.12 (1H), 8.48 (1H).
89		2-{{1-[4-(cyclopropylbenzoyl)piperidin-4-yl]methyl}-N-[2-(cyclopropylmethoxy)ethyl]-4-methyl-2H-indazol-5-carboxamide	¹ H-NMR (400 MHz, DMSO-d ₆): δ [ppm]= 0.17 (2H), 0.45 (2H), 0.69 (2H), 0.97 (3H), 1.21 (2H), 1.47 (2H), 1.93 (1H), 2.27 (1H), 2.52 (3H), 2.78 (1H), 2.93 (1H), 3.26 (2H), 3.37 (2H), 3.51 (2H), 3.62 (1H), 4.34 (2H), 4.41 (1H), 7.10 (2H), 7.17 (1H), 7.22 (2H), 7.41

Ex.	Structure	IUPAC name	Analysis
			(1H), 8.11 (1H), 8.49 (1H).

Example 90: 2-{[1-(4-chlorobenzoyl)piperidin-4-yl]methyl}-4-methyl-N-[2-(2,2,2-trifluoroethoxy)ethyl]-2H-indazol-5-carboxamide



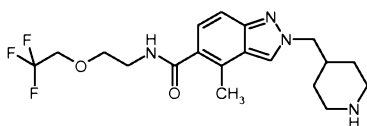
5 Analogously to Example 1, 40 mg of the title compound was obtained from 75 mg of the amine prepared in Example 90a and 27 mg of 4-chlorobenzoic acid.

¹H-NMR (400 MHz, DMSO-d₆): δ [ppm]= 1.20 (2H), 1.36 (1H), 1.53 (1H), 2.27 (1H), 2.49 (3H), 2.72 (1H), 2.97 (1H), 3.40 (2H), 3.49 (1H), 3.69 (2H), 4.07 (2H), 4.31 (2H), 4.40 (1H), 7.15 (1H), 7.37 (3H), 7.46 (2H), 8.19 (1H), 8.48 (1H).

10

The starting material was prepared as follows:

Example 90a: 4-methyl-2-(4-piperidylmethyl)-N-[2-(2,2,2-trifluoroethoxy)ethyl]-2H-indazol-5-carboxamide

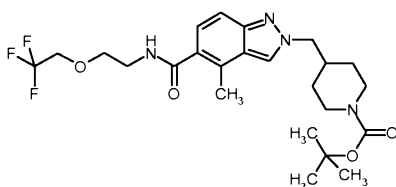


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To 610 mg of 90b were added 3.0 ml of 4M hydrochloric acid in dioxan and 0.5 ml dioxan. The mixture was stirred for 30 mins at ca. 30°C. The reaction mixture was concentrated, taken up in some toluene and again concentrated. Yield: 619 mg of the title compound, which was further reacted without further purification.

20 ¹H-NMR (400 MHz, DMSO-d₆): δ [ppm]= 1.42 (2H), 1.59 (2H), 2.26 (1H), 2.50 (3H), 2.64 (1H), 2.79 (2H), 3.20 (2H), 3.40 (2H), 3.70 (2H), 4.07 (2H), 4.33 (2H), 5.67(1H), 7.16 (1H), 7.39 (1H), 8.18 (1H), 8.53 (1H), 8.69 (1H), 8.94 (1H).

Example 90b: Tert-butyl 4-[(4-methyl-5-{N-[2-(2,2,2-trifluoroethoxy)ethyl]carbamoyl}-2H-indazol-2-yl)methyl]piperidin-1-carboxylate

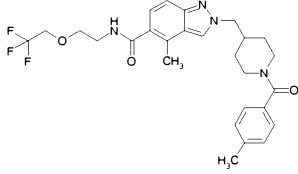
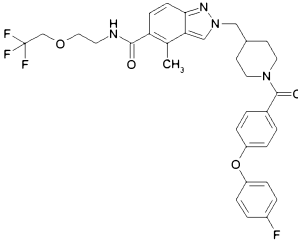
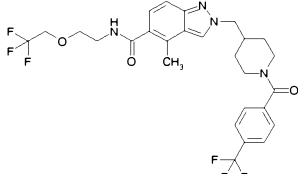


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500 mg of 1d was reacted with 240 mg of amine analogously to 1b version B. Yield: 670 mg of the title compound.

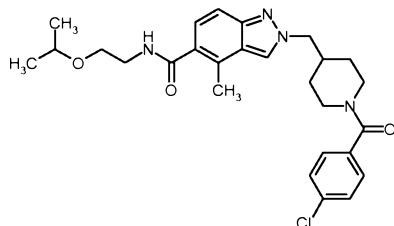
¹H-NMR (400 MHz, DMSO-d₆): δ [ppm]= 1.07 (2H), 1.34 (9H), 1.37 (2H), 2.14 (1H), 2.49 (3H), 2.63 (2H), 3.40 (2H), 3.70 (2H), 3.88 (2H), 4.06 (2H), 4.29 (2H), 7.15 (1H), 7.39 (1H), 8.16 (1H), 8.47 (1H).

The following compounds were prepared analogously:

Ex.	Structure	IUPAC name	Analysis
91		4-methyl-2-([1-(4-methylbenzoyl)-piperidin-4-yl]-methyl)-N-[2-(2,2,2-trifluoroethoxy)ethyl]-2H-indazol-5-carboxamide	¹ H-NMR (400 MHz, DMSO-d ₆): δ [ppm]= 1.19 (2H), 1.36 (1H), 1.49 (1H), 2.25 (1H), 2.29 (3H), 2.49 (3H), 2.71 (1H), 2.93 (1H), 3.40 (2H), 3.56 (1H), 3.69 (2H), 4.07 (2H), 4.31 (2H), 4.40 (1H), 7.15 (1H), 7.21 (4H), 7.39 (1H), 8.19 (1H), 8.48 (1H).
92		2-(1-[4-(4-fluorophenoxy)benzoyl]-piperidin-4-yl]-methyl)-4-methyl-N-[2-(2,2,2-trifluoroethoxy)ethyl]-2H-indazol-5-carboxamide	¹ H-NMR (400 MHz, DMSO-d ₆): δ [ppm]= 1.19 (2H), 1.44 (2H), 2.26 (1H), 2.49 (3H), 2.73 (1H), 2.95 (1H), 3.40 (2H), 3.60 (1H), 3.69 (2H), 4.07 (2H), 4.31 (2H), 4.38 (1H), 6.95 (2H), 7.12 (3H), 7.22 (2H), 7.37 (3H), 8.19 (1H), 8.48 (1H).
93		4-methyl-N-[2-(2,2,2-trifluoroethoxy)ethyl]-2-(1-[4-(trifluoromethyl)benzoyl]-piperidin-4-yl]-methyl)-2H-indazol-5-carboxamide	¹ H-NMR (400 MHz, DMSO-d ₆): δ [ppm]= 1.22 (2H), 1.36 (1H), 1.56 (1H), 2.28 (1H), 2.49 (3H), 2.74 (1H), 2.99 (1H), 3.40 (3H), 3.69 (2H), 4.07 (2H), 4.32 (2H), 4.43 (1H), 7.15 (1H), 7.39 (1H), 7.55 (2H), 7.77 (2H), 8.19 (1H), 8.48 (1H).

Ex.	Structure	IUPAC name	Analysis
94		2-({1-[(4'-fluorobiphenyl-4-yl)-carbonyl]piperidin-4-yl}methyl)-4-methyl-N-[2-(2,2,2-trifluoroethoxy)ethyl]-2H-indazol-5-carboxamide	¹ H-NMR (300 MHz, DMSO-d ₆): δ [ppm]= 1.23 (2H), 1.39 (1H), 1.52 (1H), 2.28 (1H), 2.49 (3H), 2.75 (1H), 3.00 (1H), 3.39 (2H), 3.60 (1H), 3.69 (2H), 4.07 (2H), 4.33 (2H), 4.43 (1H), 7.15 (1H), 7.27 (2H), 7.40 (3H), 7.68 (4H), 8.19 (1H), 8.49 (1H).
95		2-{{1-[4-(cyclopropylbenzoyl)piperidin-4-yl]methyl}-4-methyl-N-[2-(2,2,2-trifluoroethoxy)ethyl]-2H-indazol-5-carboxamide	¹ H-NMR (400 MHz, DMSO-d ₆): δ [ppm]= 0.69 (2H), 0.96 (2H), 1.21 (2H), 1.47 (2H), 1.93 (1H), 2.28 (1H), 2.52 (3H), 2.77 (1H), 2.94 (1H), 3.43 (2H), 3.61 (1H), 3.72 (2H), 4.09 (2H), 4.34 (2H), 4.42 (1H), 7.10 (2H), 7.17 (1H), 7.22 (2H), 7.41 (1H), 8.18 (1H).

Example 96: 2-{{1-[4-(4-chlorobenzoyl)piperidin-4-yl]methyl}-N-(2-isopropoxyethyl)-4-methyl-2H-indazol-5-carboxamide



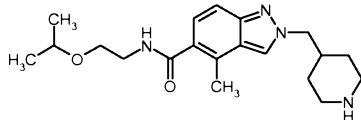
- 5 Analogously to Example 1, 36 mg of the title compound was obtained from 75 mg of the amine prepared in Example 96a and 30 mg of 4-chlorobenzoic acid.

¹H-NMR (300 MHz, DMSO-d₆): δ [ppm]= 1.07 (6H), 1.22 (2H), 1.39 (1H), 1.51 (1H), 2.26 (1H), 2.50 (3H), 2.75 (1H), 2.97 (1H), 3.33 (2H), 3.45 (3H), 3.55 (1H), 4.31 (2H), 4.39 (1H), 7.14 (1H), 7.36 (3H), 7.47 (2H), 8.05 (1H), 8.46 (1H).

10

The starting material was prepared as follows:

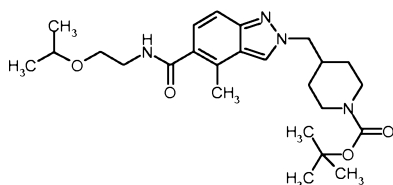
Example 96a: N-(2-isopropoxyethyl)-4-methyl-2-(4-piperidylmethyl)-2H-indazol-5-carboxamide



To 650 mg of 96b were added 3.2 ml of 4M hydrochloric acid in dioxan and 0.5 ml dioxan. The mixture was stirred for 30 mins at ca. 30°C. The reaction mixture was concentrated, taken up in some toluene and again concentrated. Yield: 529 mg of the title compound, which was further reacted without further purification.

¹H-NMR (400 MHz, DMSO-d₆): δ [ppm]= 1.06 (3H), 1.07 (3H), 1.42 (2H), 1.57 (2H), 2.25 (1H), 2.50 (3H), 2.65 (1H), 2.78 (2H), 3.19 (2H), 3.32 (2H), 3.45 (2H), 3.55 (1H), 4.32 (1H), 6.61 (1H), 7.15 (1H), 7.38 (1H), 8.11 (1H), 8.53 (1H), 8.78 (1H), 9.04 (1H).

Example 96b: Tert-butyl 4-({5-[N-(2-isopropoxyethyl)carbamoyl]-4-methyl-2H-indazol-2-yl}-methyl)piperidin-1-carboxylate



500 mg of 1d was reacted with 138 mg of amine analogously to 1b version B. Yield: 650 mg of the title compound.

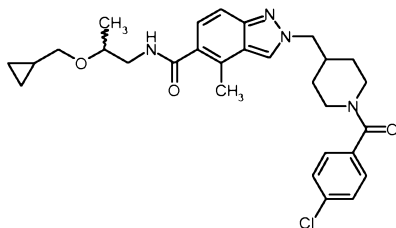
¹H-NMR (400 MHz, DMSO-d₆): δ [ppm]= 1.07 (8H), 1.34 (9H), 1.38 (2H), 2.13 (1H), 2.50 (3H), 2.63 (2H), 3.33 (2H), 3.46 (2H), 3.55 (1H), 3.87 (2H), 4.28 (2H), 7.14 (1H), 7.38 (1H), 8.05 (1H), 8.46 (1H).

The following compounds were prepared analogously:

Ex.	Structure	IUPAC name	Analysis
97		N-(2-isopropoxyethyl)-4-methyl-2-{{[1-(4-methylbenzoyl)piperidin-4-yl]methyl}-2H-indazol-5-carboxamide	¹ H-NMR (300 MHz, DMSO-d ₆): δ [ppm]= 1.07 (6H), 1.19 (2H), 1.45 (2H), 2.29 (4H), 2.50 (3H), 2.75 (1H), 2.92 (1H), 3.33 (2H), 3.45 (2H), 3.55 (2H), 4.31 (2H), 4.40 (1H), 7.14 (1H), 7.20 (4H), 7.38 (1H), 8.05 (1H), 8.46 (1H).

Ex.	Structure	IUPAC name	Analysis
98		2-({1-[4-(4-fluoro-phenoxy)benzoyl]-piperidin-4-yl}-methyl)-N-(2-isopropoxyethyl)-4-methyl-2H-indazol-5-carboxamide	$^1\text{H-NMR}$ (300 MHz, DMSO- d_6): δ [ppm]= 1.07 (6H), 1.21 (2H), 1.45 (2H), 2.25 (1H), 2.49 (3H), 2.85 (2H), 3.31 (2H), 3.45 (2H), 3.55 (2H), 4.31 (2H), 4.40 (1H), 6.95 (2H), 7.10 (3H), 7.22 (2H), 7.36 (3H), 8.05 (1H), 8.46 (1H).
99		N-(2-isopropoxyethyl)-4-methyl-2-({1-[4-(trifluoromethyl)benzoyl]-piperidin-4-yl}-methyl)-2H-indazol-5-carboxamide	$^1\text{H-NMR}$ (300 MHz, DMSO- d_6): δ [ppm]= 1.06 (6H), 1.22 (2H), 1.37 (1H), 1.56 (1H), 2.28 (1H), 2.50 (3H), 2.75 (1H), 2.99 (1H), 3.33 (2H), 3.45 (3H), 3.55 (1H), 4.32 (2H), 4.43 (1H), 7.15 (1H), 7.38 (1H), 7.55 (2H), 7.77 (2H), 8.05 (1H), 8.46 (1H).
100		2-({1-[4'-(4-fluorobiphenyl-4-yl)-carbonyl]piperidin-4-yl}methyl)-N-(2-isopropoxyethyl)-4-methyl-2H-indazol-5-carboxamide	$^1\text{H-NMR}$ (300 MHz, DMSO- d_6): δ [ppm]= 1.06 (6H), 1.23 (2H), 1.47 (2H), 2.28 (1H), 2.50 (3H), 2.76 (1H), 2.98 (1H), 3.33 (2H), 3.45 (2H), 3.55 (2H), 4.33 (2H), 4.43 (1H), 7.15 (1H), 7.27 (2H), 7.39 (3H), 7.68 (4H), 8.05 (1H), 8.47 (1H).
101		2-({1-[4-(cyclopropylbenzoyl)piperidin-4-yl]methyl}-N-(2-isopropoxyethyl)-4-methyl-2H-indazol-5-carboxamide	$^1\text{H-NMR}$ (300 MHz, DMSO- d_6): δ [ppm]= 0.66 (2H), 0.94 (2H), 1.06 (6H), 1.20 (2H), 1.44 (2H), 1.90 (1H), 2.24 (1H), 2.49 (3H), 2.82 (2H), 3.32 (2H), 3.45 (2H), 3.55 (2H), 4.31 (2H), 4.39 (1H), 7.12 (5H), 7.38 (1H), 8.05 (1H), 8.46 (1H).

Example 102: (+/-)-2-({1-[4-(4-chlorobenzoyl)piperidin-4-yl]methyl}-N-[2-(cyclopropylmethoxy)propyl]-4-methyl-2H-indazol-5-carboxamide



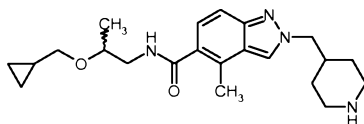
Analogously to Example 1, 41 mg of the title compound was obtained from 100 mg of the amine prepared in Example 102a and 37 mg of 4-chlorobenzoic acid.

¹H-NMR (400 MHz, DMSO-d₆): δ [ppm]= 0.16 (2H), 0.43 (2H), 0.97 (1H), 1.10 (3H), 1.23 (2H), 1.40 (1H), 1.55 (1H), 2.29 (1H), 2.53 (3H), 2.75 (1H), 2.99 (1H), 3.23 (2H), 3.20 (2H), 3.51 (1H), 3.59 (1H), 4.34 (2H), 4.43 (1H), 7.17 (1H), 7.39 (3H), 7.49 (2H), 8.09 (1H), 8.49 (1H).

The starting material was prepared as follows:

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Example 102a: (+/-)-N-[2-(cyclopropylmethoxy)propyl]-4-methyl-2-(4-piperidylmethyl)-2H-indazol-5-carboxamide

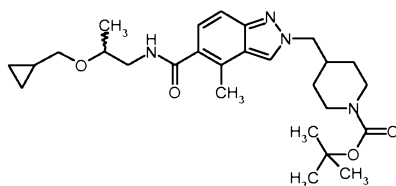


To 632 mg of 102b were added 2.9 ml of 4M hydrochloric acid in dioxan and 0.5 ml dioxan. The mixture was stirred for 30 mins at ca. 30°C. The reaction mixture was concentrated, taken up in some toluene and again concentrated. Yield: 561 mg of the title compound, which was further reacted without further purification.

¹H-NMR (300 MHz, DMSO-d₆): δ [ppm]= 0.13 (2H), 0.40 (2H), 0.94 (1H), 1.07 (3H), 1.44 (2H), 1.57 (2H), 2.26 (1H), 2.50 (3H), 2.77 (2H), 3.20 (6H), 3.57 (1H), 4.33 (2H), 6.33 (1H), 7.16 (1H), 7.39 (1H), 8.11 (1H), 8.53 (1H), 8.79 (1H), 9.06 (1H).

20

Example 102b: (+/-)-tert-butyl 4-[(5-{N-[2-(cyclopropylmethoxy)propyl]carbamoyl}-4-methyl-2H-indazol-2-yl)methyl]piperidin-1-carboxylate



500 mg of 1d was reacted with 222 mg of amine analogously to 1b version B. Yield: 631 mg of the title compound.

25

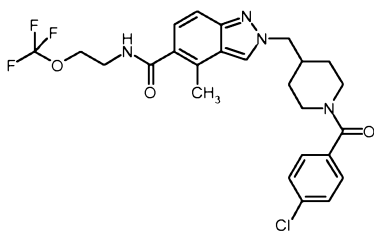
¹H-NMR (300 MHz, DMSO-d₆): δ [ppm]= 0.13 (2H), 0.40 (2H), 0.94 (1H), 1.07 (3H), 1.14 (2H), 1.34 (9H), 1.38 (2H), 2.13 (1H), 2.50 (3H), 3.24 (6H), 3.57 (1H), 3.87 (2H), 4.28 (2H), 7.15 (1H), 7.39 (1H), 8.09 (1H), 8.46 (1H).

5 The following compounds were prepared analogously:

Ex.	Structure	IUPAC name	Analysis
103		(+/-)-N-[2-(cyclopropylmethoxy)-propyl]-2-({1-[4-(4-fluorophenoxy)-benzoyl]piperidin-4-yl}-methyl)-4-methyl-2H-indazol-5-carboxamide	¹ H-NMR (400 MHz, DMSO-d ₆): δ [ppm]= 0.16 (2H), 0.43 (2H), 0.97 (1H), 1.10 (3H), 1.22 (2H), 1.48 (2H), 2.29 (1H), 2.53 (3H), 2.81 (1H), 2.92 (1H), 3.23 (2H), 3.28 (2H), 3.60 (1H), 3.70 (1H), 4.34 (2H), 4.42 (1H), 6.98 (2H), 7.14 (3H), 7.25 (2H), 7.39 (3H), 8.09 (1H), 8.49 (1H).
104		(+/-)-N-[2-(cyclopropylmethoxy)-propyl]-4-methyl-2-({1-[4-(trifluoromethyl)benzoyl]piperidin-4-yl}-methyl)-2H-indazol-5-carboxamide	¹ H-NMR (400 MHz, DMSO-d ₆): δ [ppm]= 0.16 (2H), 0.43 (2H), 0.97 (1H), 1.10 (3H), 1.24 (2H), 1.38 (1H), 1.59 (1H), 2.30 (1H), 2.53 (3H), 2.78 (1H), 3.02 (1H), 3.23 (2H), 3.28 (2H), 3.45 (1H), 3.60 (1H), 4.34 (2H), 4.46 (1H), 7.17 (1H), 7.41 (1H), 7.57 (2H), 7.80 (2H), 8.09 (1H), 8.49 (1H).
105		(+/-)-N-[2-(cyclopropylmethoxy)-propyl]-2-({1-[4-(4'-fluorobiphenyl-4-yl)carbonyl]piperidin-4-yl}-methyl)-4-methyl-2H-indazol-5-carboxamide	¹ H-NMR (400 MHz, DMSO-d ₆): δ [ppm]= 0.16 (2H), 0.42 (2H), 0.97 (1H), 1.10 (3H), 1.26 (2H), 1.45 (1H), 1.55 (1H), 2.32 (1H), 2.53 (3H), 2.79 (1H), 3.03 (1H), 3.23 (2H), 3.27 (2H), 3.60 (2H), 4.36 (2H), 4.46 (1H), 7.17 (1H), 7.30 (2H), 7.42 (3H), 7.71 (4H), 8.09 (1H), 8.50 (1H).

Ex.	Structure	IUPAC name	Analysis
106		(+/-)-2- {[1-(4-cyclopropylbenzoyl)piperidin-4-yl]-methyl}-N-[2-(cyclopropylmethoxy)propyl]-4-methyl-2H-indazol-5-carboxamide	¹ H-NMR (400 MHz, DMSO-d ₆): δ [ppm]= 0.16 (2H), 0.43 (2H), 0.69 (2H), 0.96 (3H), 1.10 (3H), 1.20 (2H), 1.47 (2H), 1.93 (1H), 2.28 (1H), 2.53 (3H), 2.77 (1H), 2.93 (1H), 3.23 (2H), 3.28 (2H), 3.59 (2H), 4.34 (2H), 4.40 (1H), 7.10 (2H), 7.17 (1H), 7.22 (2H), 7.41 (1H), 8.09 (1H), 8.49 (1H).

Example 107: 2- {[1-(4-chlorobenzoyl)piperidin-4-yl]methyl}-4-methyl-N-[2-(trifluoromethoxy)ethyl]-2H-indazol-5-carboxamide



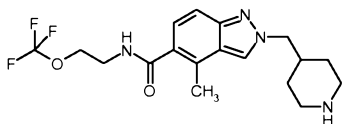
- 5 Analogously to Example 1, 26 mg of the title compound was obtained from 75 mg of the amine prepared in Example 107a and 28 mg of 4-chlorobenzoic acid.

¹H-NMR (300 MHz, DMSO-d₆): δ [ppm]= 1.20 (2H), 1.36 (1H), 1.52 (1H), 2.27 (1H), 2.49 (3H), 2.72 (1H), 2.97 (1H), 3.51 (3H), 4.17 (2H), 4.33 (3H), 7.15 (1H), 7.41 (5H), 8.37 (1H), 8.49 (1H).

10

The starting material was prepared as follows:

Example 107a: 4-methyl-2-(4-piperidylmethyl)-N-[2-(trifluoromethoxy)ethyl]-2H-indazol-5-carboxamide

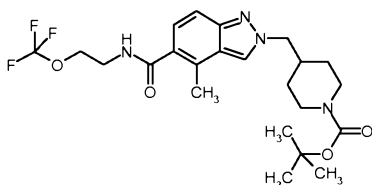


15

To 648 mg of 107b were added 3.0 ml of 4M hydrochloric acid in dioxan and 0.5 ml dioxan. The mixture was stirred for 30 mins at ca. 30°C. The reaction mixture was concentrated, taken up in some toluene and again concentrated. Yield: 766 mg of the title compound, which was further reacted without further purification.

¹H-NMR (300 MHz, DMSO-d₆): δ [ppm]= 1.43 (2H), 1.57 (2H), 2.24 (1H), 2.50 (3H), 2.78 (2H), 3.19 (2H), 3.50 (1H), 4.17 (2H), 4.33 (2H), 6.49 (1H), 7.17 (2H), 7.40 (1H), 8.39 (1H), 8.55 (1H), 8.70 (1H), 8.98 (1H).

- 5 **Example 107b:** Tert-butyl 4-[(4-methyl-5-{N-[2-(trifluoromethoxy)ethyl]carbamoyl}-2H-indazol-2-yl)methyl]piperidin-1-carboxylate



500 mg of 1d was reacted with 293 mg of amine analogously to 1b version B. Yield: 748 mg of the title compound.

- 10 ¹H-NMR (400 MHz, DMSO-d₆): δ [ppm]= 1.07 (2H), 1.34 (9H), 1.37 (2H), 2.12 (1H), 2.50 (3H), 2.63 (1H), 3.52 (2H), 3.87 (2H), 4.17 (2H), 4.29 (2H), 7.16 (2H), 7.41 (1H), 8.37 (1H), 8.48 (1H).

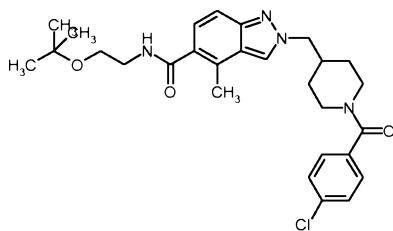
The following compounds were prepared analogously:

15

Ex.	Structure	IUPAC name	Analysis
108		2-({1-[4-(4-fluorophenoxy)benzoyl]piperidin-4-yl}methyl)-4-methyl-N-[2-(trifluoromethoxy)ethyl]-2H-indazol-5-carboxamide	¹ H-NMR (300 MHz, DMSO-d ₆): δ [ppm]= 1.19 (2H), 1.46 (2H), 2.26 (1H), 2.49 (3H), 2.87 (2H), 3.51 (3H), 4.17 (2H), 4.33 (3H), 6.95 (2H), 7.16 (5H), 7.38 (3H), 8.36 (1H), 8.49 (1H).
109		2-({1-[(4'-fluorobiphenyl-4-yl)carbonyl]piperidin-4-yl}methyl)-4-methyl-N-[2-(trifluoromethoxy)ethyl]-2H-indazol-5-carboxamide	¹ H-NMR (300 MHz, DMSO-d ₆): δ [ppm]= 1.23 (2H), 1.47 (2H), 2.28 (1H), 2.50 (3H), 2.74 (1H), 2.99 (1H), 3.51 (2H), 3.61 (1H), 4.17 (2H), 4.34 (3H), 7.16 (1H), 7.27 (2H), 7.40 (3H), 7.68 (4H), 8.37 (1H), 8.50 (1H).

110		4-methyl-N-[2-(trifluoromethoxy)ethyl]-2-[(1-{4-[4-(trifluoromethyl)phenoxy]-benzoyl}piperidin-4-yl)-methyl]-2H-indazol-5-carboxamide	¹ H-NMR (300 MHz, DMSO-d ₆): δ [ppm]= 1.21 (2H), 1.46 (2H), 2.27 (1H), 2.50 (3H), 2.76 (1H), 2.98 (1H), 3.51 (2H), 3.61 (1H), 4.17 (2H), 4.33 (2H), 4.43 (1H), 7.14 (5H), 7.41 (3H), 7.73 (2H), 8.37 (1H), 8.49 (1H).
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Example 111: N-(2-tert-butoxyethyl)-2-[[1-(4-chlorobenzoyl)piperidin-4-yl]methyl]-4-methyl-2H-indazol-5-carboxamide



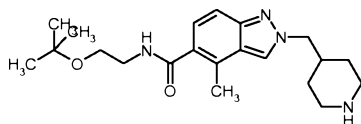
- 5 Analogously to Example 1, 8 mg of the title compound was obtained from 75 mg of the amine prepared in Example 111a and 28 mg of 4-chlorobenzoic acid.

¹H-NMR (400 MHz, DMSO-d₆): δ [ppm]= 1.12 (9H), 1.21 (2H), 1.36 (1H), 1.53 (1H), 2.27 (1H), 2.50 (3H), 2.72 (1H), 2.97 (1H), 3.29 (2H), 3.43 (3H), 4.31 (2H), 4.40 (1H), 7.14 (1H), 7.36 (3H), 7.46 (2H), 8.04 (1H), 8.46 (1H).

10

The starting material was prepared as follows:

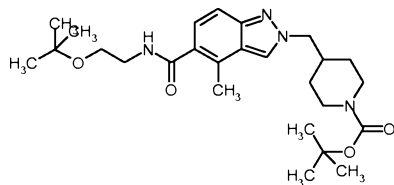
Example 111a: N-(2-tert-butoxyethyl)-4-methyl-2-(4-piperidylmethyl)-2H-indazol-5-carboxamide



15

To 743 mg of 111b were added 3.5 ml of 4M hydrochloric acid in dioxan and 0.5 ml dioxan. The mixture was stirred for 30 mins at ca. 30°C. The reaction mixture was concentrated, taken up in some toluene and again concentrated. Yield: 677 mg of the title compound in a mixture with N-(2-hydroxyethyl)-4-methyl-2-(4-piperidylmethyl)-2H-indazol-5-carboxamide, which was further
20 reacted without further purification.

Example 111b: Tert-butyl 4-({5-[N-(2-tert-butoxyethyl)carbamoyl]-4-methyl-2H-indazol-2-yl} methyl)piperidin-1-carboxylate

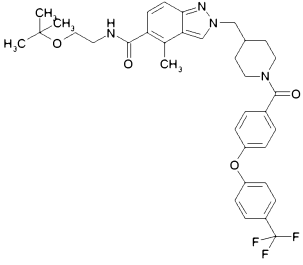


500 mg of 1d was reacted with 206 mg of amine analogously to 1b version B. Yield: 743 mg of the title compound.

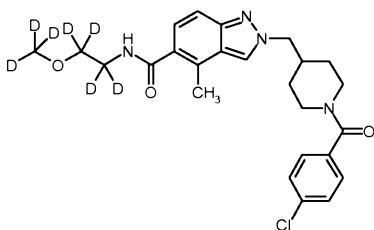
¹H-NMR (300 MHz, DMSO-d₆): δ [ppm]= 1.06 (2H), 1.11 (9H), 1.34 (9H), 1.39 (2H), 2.13 (1H), 2.50 (3H), 2.65 (2H), 3.27 (2H), 3.40 (2H), 3.87 (2H), 4.28 (2H), 7.14 (1H), 7.38 (1H), 8.05 (1H), 8.46 (1H).

The following compounds were prepared analogously:

Ex.	Structure	IUPAC name	Analysis
112		N-(2-tert-butoxyethyl)-2-({1-[4-(4-fluorophenoxy)benzoyl]-piperidin-4-yl} methyl)-4-methyl-2H-indazol-5-carboxamide	¹ H-NMR (400 MHz, DMSO-d ₆): δ [ppm]= 1.12 (9H), 1.20 (2H), 1.44 (2H), 2.26 (1H), 2.50 (3H), 2.76 (1H), 2.93 (1H), 3.30 (2H), 3.40 (2H), 3.57 (1H), 4.31 (2H), 4.39 (1H), 6.95 (2H), 7.12 (3H), 7.23 (2H), 7.36 (3H), 8.04 (1H), 8.46 (1H).
113		N-(2-tert-butoxyethyl)-2-({1-[(4'-fluorobiphenyl-4-yl)-carbonyl]piperidin-4-yl} methyl)-4-methyl-2H-indazol-5-carboxamide	¹ H-NMR (400 MHz, DMSO-d ₆): δ [ppm]= 1.11 (9H), 1.23 (2H), 1.40 (1H), 1.54 (1H), 2.29 (1H), 2.50 (3H), 2.75 (1H), 3.00 (1H), 3.29 (2H), 3.40 (2H), 3.65 (1H), 4.32 (2H), 4.43 (1H), 7.15 (1H), 7.28 (2H), 7.40 (3H), 7.69 (4H), 8.05 (1H), 8.47 (1H).

114		N-(2-tert-butoxyethyl)- 4-methyl-2-[(1-{4-[4-((trifluoromethyl)- phenoxy]benzoyl}- piperidin-4-yl)methyl]- 2H-indazol-5- carboxamide	¹ H-NMR (400 MHz, DMSO-d ₆): δ [ppm]= 1.12 (9H), 1.21 (2H), 1.40 (1H), 1.52 (1H), 2.27 (1H), 2.50 (3H), 2.75 (1H), 2.99 (1H), 3.28 (2H), 3.40 (2H), 3.60 (1H), 4.32 (2H), 4.40 (1H), 7.15 (5H), 7.40 (3H), 7.73 (2H), 8.04 (1H), 8.47 (1H).
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Example 115: 2-{[1-(4-chlorobenzoyl)piperidin-4-yl]methyl}-N-(2-[²H₃]methoxy[²H₄]ethyl)-4-methyl-2H-indazol-5-carboxamide



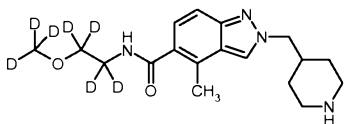
- 5 Analogously to Example 1, 1 mg of the title compound was obtained from 54 mg of the amine prepared in Example 115a and 22 mg of 4-chlorobenzoic acid.

¹H-NMR (300 MHz, DMSO-d₆): δ [ppm]= 1.20 (2H), 1.40 (1H), 1.51 (1H), 2.27 (1H), 2.49 (3H), 2.75 (1H), 2.96 (1H), 3.50 (1H), 4.31 (2H), 4.40 (1H), 7.15 (1H), 7.36 (3H), 7.47 (2H), 8.07 (1H), 8.46 (1H).

10

The starting material was prepared as follows:

Example 115a: 4-methyl-N-(2-[²H₃]methoxy[²H₄]ethyl)-2-(4-piperidylmethyl)-2H-indazol-5-carboxamide

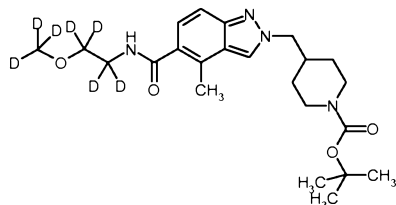


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To 131 mg of 115b were added 0.7 ml of 4M hydrochloric acid in dioxan and 0.5 ml dioxan. The mixture was stirred for 30 mins at ca. 30°C. The reaction mixture was concentrated, taken up in some toluene and again concentrated. Yield: 108 mg of the title compound, which was further reacted without further purification.

- 20 ¹H-NMR (400 MHz, DMSO-d₆): δ [ppm]= 1.42 (2H), 1.58 (2H), 2.26 (1H), 2.49 (3H), 2.78 (2H), 3.19 (2H), 4.33 (2H), 5.55 (1H), 7.16 (1H), 7.38 (1H), 8.12 (1H), 8.53 (1H), 8.70 (1H), 8.97 (1H).

Example 115b: Tert-butyl 4-({4-methyl-5-[N-(2-[²H₃]methyloxy[²H₄]ethyl)carbamoyl]-2H-indazol-2-yl} methyl)piperidin-1-carboxylate

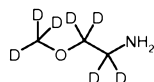


500 mg of 1d was reacted analogously to 1b version B with 110 mg of amine prepared in 115c.

5 Yield: 131 mg of the title compound.

¹H-NMR (300 MHz, DMSO-d₆): δ [ppm]= 1.07 (2H), 1.34 (9H), 1.37 (2H), 2.13 (1H), 2.49 (3H), 2.62 (2H), 3.88 (2H), 4.28 (2H), 7.15 (1H), 7.38 (1H), 8.07 (1H), 8.46 (1H).

Example 115c: 2-[²H₃]methyloxy[²H₄]ethan-1-amine

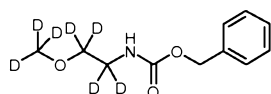


10

110 mg of (0.51 mmol) of 115d was first placed in 2.2 ml toluene. After addition of 11 mg of palladium/charcoal (10%) and hydrogen under normal pressure, the mixture was stirred for 50 mins at room temperature. The reaction mixture was filtered through Celite and rewashd with toluene. The colourless filtrate was used as solution in the subsequent reaction.

15

Example 115d: Benzyl N-(2-[²H₃]methyloxy[²H₄]ethyl)carbamate



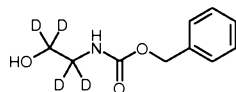
20

1.32 g (6.6 mmol) of 115e) was dissolved in 23 ml acetonitrile. 2.3 g (9.9 mmol) of silver oxide and 1.64 ml (3.8 g, 26 mmol) of deuterated iodomethane were then added. The reaction mixture was stirred for 1.5 hrs at 40°C, 7.5 hrs at 72°C and then overnight at room temperature. A further 2.3 g (9.9 mmol) of silver oxide was added and the mixture stirred for 1.5 hrs at 72°C. For the work-up, the black solid was filtered off at the pump and the clear filtrate concentrated. The residue was purified by column chromatography (hexane/ethyl acetate 0-10%). Yield: 1.13 g of the title compound.

25

¹H-NMR (300 MHz, DMSO-d₆): δ [ppm]= 4.97 (2H), 7.31 (5H).

Example 115e: Benzyl N-(2-hydroxy[²H₄]ethyl)carbamate



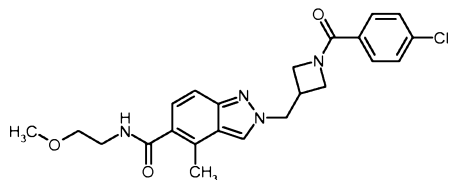
1.0 g (15 mmol) of deuterated aminoethanol was first dissolved in 29 ml dichloromethane. Then 2.5 ml (1.8 g, 18mmol) of triethylamine was added and the reaction mixture cooled to 0°C. At this temperature 2.75 ml (3.34 g, 19.6 mmol) of benzyl chloroformate was now cautiously added dropwise. After completion of the addition, the mixture was stirred for 1 hr more with no ice-bath and in the process warmed up to RT. The reaction mixture was diluted once with some dichloromethane and washed once with saturated sodium chloride solution. The organic phase was dried over sodium sulphate, filtered and concentrated. The crude product was purified twice by column chromatography (dichloromethane/methanol 0-10% and ethyl acetate). Yield: 1.32 g of the title compound.

¹H-NMR (300 MHz, DMSO-d₆): δ [ppm]= 4.54 (1H), 4.97 (2H), 7.12 (1H), 7.81 (5H).

The following compound was prepared analogously:

Ex.	Structure	IUPAC name	Analysis
116		2-({1-[4-(4-fluorophenoxy)benzoyl]piperidin-4-yl}methyl)-4-methyl-N-(2-[² H ₃]-methoxy[² H ₄]ethyl)-2H-indazol-5-carboxamide	¹ H-NMR (300 MHz, DMSO-d ₆): δ [ppm]= 1.19 (2H), 1.46 (2H), 2.25 (1H), 2.49 (3H), 2.85 (2H), 3.66 (1H), 4.31 (2H), 4.38 (1H), 6.95 (2H), 7.16 (5H), 7.36 (3H), 8.07 (1H), 8.46 (1H).

Example 117: 2-{{1-[4-(4-chlorobenzoyl)azetidin-3-yl]methyl}-N-(2-methoxyethyl)-4-methyl-2H-indazol-5-carboxamide

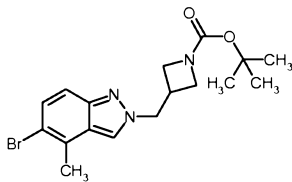


Analogously to Example 55, 471 mg of the title compound was obtained from 500 mg of the compound prepared in Example 117e) and 287 mg of 4-chlorobenzoyl chloride.

¹H-NMR (300 MHz, DMSO-d₆): δ = 2.49 (3H), 3.22 (1H), 3.25 (3H), 3.32-3.46 (4H), 3.89 (1H), 4.09 (1H), 4.19 (1H), 4.37 (1H), 4.67 (2H), 7.15 (1H), 7.38 (1H), 7.48 (2H), 7.59 (2H), 8.12 (1H), 8.54 (1H).

The starting material was prepared as follows:

Example 117a: Tert-butyl 3-[(5-bromo-4-methyl-2H-indazol-2-yl)methyl]-azetidin-1-carboxylate

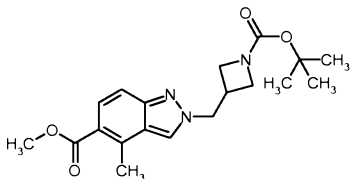


To a solution of 21.1 g of 5-bromo-4-methyl-1H-indazole and 37.6 g of tert-butyl-3-[(tosyloxy)-methyl]azetidin-1-carboxylate in 100 ml dioxan were added 150 ml of a 1M solution of sodium bis(trimethylsilyl)amide in tetrahydrofuran at 25°C and this was stirred for 6 hrs at 90°C. After cooling, the reaction mixture was treated with ethyl acetate and water, the organic phases separated and the aqueous phase extracted twice with 100 ml portions of ethyl acetate. The combined organic phases were washed with saturated sodium chloride solution, dried over sodium sulphate, and concentrated in vacuo after filtration.

The residue thus obtained was purified by chromatography on the Flashmaster (hexane/ethyl acetate 1:0-0:1). 15.0 g of the title compound was obtained.

¹H-NMR (300 MHz, DMSO-d₆): δ = 1.32 (9H), 2.48 (3H), 3.07 (1H), 3.69 (2H), 3.87 (2H), 4.59 (2H), 7.28 (1H), 7.35 (1H), 8.53 (1H).

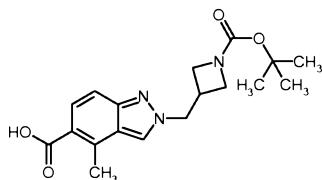
Example 117b: Methyl 2-{[1-(tert-butoxycarbonyl)azetidin-3-yl]methyl}-4-methyl-2H-indazol-5-carboxylate



To a solution of 8.16 g of the bromide prepared in Example 117a in 65.4 ml methanol, 6.5 g of 1,1 bis(diphenylphosphino)ferrocen-palladium(II) dichloride and 15 g of potassium acetate were added at 25°C and the mixture was stirred under CO at 10.15 bar and 120°C for 24 hours in an autoclave. The reaction mixture was then cooled, filtered through Celite at the pump and the filtrate concentrated in vacuo. The residue thus obtained was purified by chromatography on the Flashmaster (hexane/ethyl acetate 1:0-0:1). 6.97g of the title compound was obtained.

¹H-NMR (300 MHz, DMSO-d₆): δ = 1.32 (9H), 2.73 (3H), 3.09 (1H), 3.71 (2H), 3.79 (3H), 3.87 (2H), 4.62 (2H), 7.42 (1H), 7.63 (1H), 8.74 (1H).

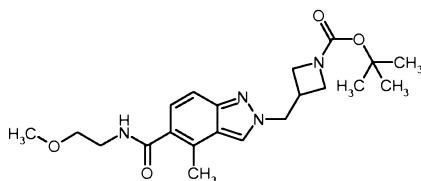
Example 117c: 2-{[1-(tert-butoxycarbonyl)azetidin-3-yl]methyl}-4-methyl-2H-indazol-5-carboxylic acid



Analogously to Example 1d, 5.2 g of the title compound was obtained from 15.1 g of the ester prepared in Example 117b.

¹H-NMR (300 MHz, DMSO-d₆): δ = 1.32 (9H), 2.73 (3H), 3.09 (1H), 3.71 (2H), 3.87 (2H), 4.61 (2H), 7.39 (1H), 7.64 (1H), 8.70 (1H), 12.57 (1H).

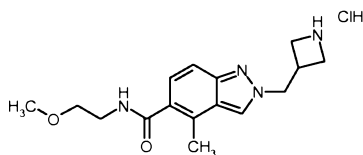
Example 117d: Tert-butyl 3-(5-[N-(2-methoxyethyl)carbamoyl]-4-methyl-2H-indazol-2-yl)-methyl)azetidin-1-carboxylate



Analogously to Example 1, from 2.5 g of the acid prepared in Example 117c and 0.54 g of 2-methoxyethylamine, a crude product was obtained which through purification with a Biotage unit (ethyl acetate : 0 to 30% methanol) yielded 2.69 g of the title compound.

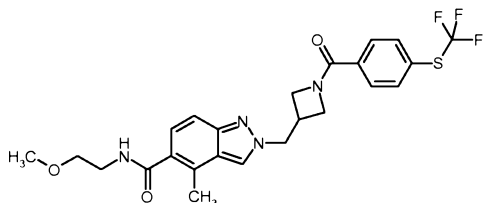
¹H-NMR (300 MHz, DMSO-d₆): δ = 1.32 (9H), 2.49 (3H), 3.08 (1H), 3.25 (3H), 3.32-3.46 (4H), 3.70 (2H), 3.86 (2H), 4.60 (2H), 7.15 (1H), 7.38 (1H), 8.11 (1H), 8.54 (1H).

Example 117e: 2-(azetidin-3-ylmethyl)-N-(2-methoxyethyl)-4-methyl-2H-indazol-5-carboxamide hydrochloride



Analogously to Example 1a, from 2.69 g of the amide prepared in Example 117d, 2.59 g of the title compound was obtained, which was reacted without further purification.

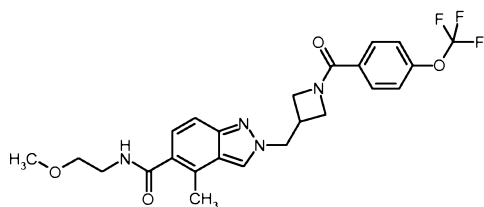
Example 118: N-(2-methoxyethyl)-4-methyl-2-[(1-{4-[(trifluoromethyl)sulphonyl]benzoyl}azetidin-3-yl)methyl]-2H-indazol-5-carboxamide



Analogously to Example 55, 29 mg of the title compound was obtained from 55 mg of the compound prepared in Example 117e and 43 mg of 4-[(trifluoromethyl)sulphonyl]benzoyl chloride.

¹H-NMR (300 MHz, DMSO-d₆): δ = 2.49 (3H), 3.22 (1H), 3.25 (3H), 3.36 (2H), 3.42 (2H), 3.92 (1H), 4.11 (1H), 4.20 (1H), 4.39 (1H), 4.67 (2H), 7.15 (1H), 7.38 (1H), 7.69 (2H), 7.76 (2H), 8.12 (1H), 8.54 (1H).

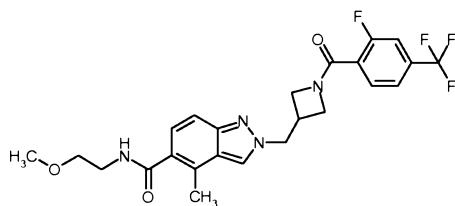
Example 119: N-(2-methoxyethyl)-4-methyl-2-({1-[4-(trifluoromethoxy)benzoyl]azetidin-3-yl}methyl)-2H-indazol-5-carboxamide



Analogously to Example 55, 27 mg of the title compound was obtained from 55 mg of the compound prepared in Example 117e and 40 mg of 4-(trifluoromethoxy)benzoyl chloride.

¹H-NMR (300 MHz, DMSO-d₆): δ = 2.49 (3H), 3.20 (1H), 3.24 (3H), 3.32-3.46 (4H), 3.91 (1H), 4.10 (1H), 4.20 (1H), 4.39 (1H), 4.67 (2H), 7.15 (1H), 7.35-7.44 (3H), 7.70 (2H), 8.12 (1H), 8.54 (1H).

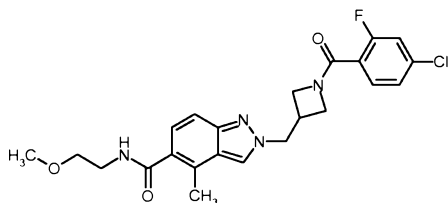
Example 120: 2-({1-[2-fluoro-4-(trifluoromethyl)benzoyl]azetidin-3-yl}methyl)-N-(2-methoxyethyl)-4-methyl-2H-indazol-5-carboxamide



Analogously to Example 55, 17 mg of the title compound was obtained from 55 mg of the compound prepared in Example 117e and 41 mg of 2-fluoro-4-(trifluoromethyl)benzoyl chloride.

¹H-NMR (300 MHz, DMSO-d₆): δ = 2.48 (3H), 3.23 (1H), 3.25 (3H), 3.36 (2H), 3.42 (2H), 3.94 (2H), 4.11 (2H), 4.66 (2H), 7.15 (1H), 7.38 (1H), 7.64 (2H), 7.79 (1H), 8.12 (1H), 8.54 (1H).

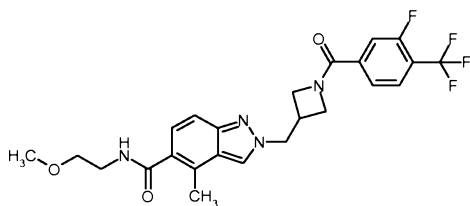
Example 121: 2-{{1-[4-chloro-2-fluorobenzoyl]azetidin-3-yl}methyl}-N-(2-methoxyethyl)-4-methyl-2H-indazol-5-carboxamide



Analogously to Example 55, 19 mg of the title compound was obtained from 42 mg of the compound prepared in Example 117e and 26 mg of 4-chloro-2-fluorobenzoyl chloride.

¹H-NMR (300 MHz, DMSO-d₆): δ = 2.48 (3H), 3.21 (1H), 3.24 (3H), 3.33-3.46 (4H), 3.86-3.97 (2H), 4.08 (2H), 4.65 (2H), 7.15 (1H), 7.34 (1H), 7.37 (1H), 7.44 (1H), 7.52 (1H), 8.12 (1H), 8.53 (1H).

Example 122: 2-({1-[3-fluoro-4-(trifluoromethyl)benzoyl]azetidin-3-yl}methyl)-N-(2-methoxyethyl)-4-methyl-2H-indazol-5-carboxamide



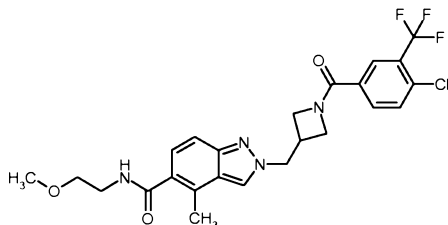
10

Analogously to Example 55, 15 mg of the title compound was obtained from 42 mg of the compound prepared in Example 117e and 31 mg of 3-fluoro-4-(trifluoromethyl)benzoyl chloride.

¹H-NMR (300 MHz, DMSO-d₆): δ = 2.49 (3H), 3.21 (1H), 3.25 (3H), 3.36 (2H), 3.42 (2H), 3.93 (1H), 4.12 (1H), 4.22 (1H), 4.40 (1H), 4.67 (2H), 7.15 (1H), 7.37 (1H), 7.57 (1H), 7.64 (1H), 7.85 (1H), 8.12 (1H), 8.54 (1H).

15

Example 123: 2-({1-[4-chloro-3-(trifluoromethyl)benzoyl]azetidin-3-yl}methyl)-N-(2-methoxyethyl)-4-methyl-2H-indazol-5-carboxamide



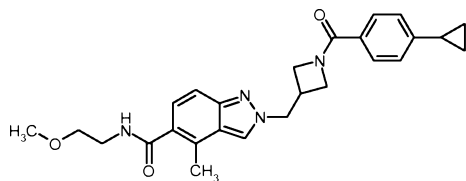
20

Analogously to Example 55, 6 mg of the title compound was obtained from 42 mg of the compound prepared in Example 117e and 33 mg of 4-chloro-3-(trifluoromethyl)benzoyl chloride.

¹H-NMR (300 MHz, DMSO-d₆): δ = 2.49 (3H), 3.21 (1H), 3.25 (3H), 3.31-3.46 (4H), 3.92 (1H), 4.11 (1H), 4.22 (1H), 4.41 (1H), 4.67 (2H), 7.15 (1H), 7.37 (1H), 7.79 (1H), 7.86 (1H), 7.94 (1H), 8.12 (1H), 8.53 (1H).

25

Example 124: 2- {[1-(4-cyclopropylbenzoyl)azetidin-3-yl]methyl}-N-(2-methoxyethyl)-4-methyl-2H-indazol-5-carboxamide

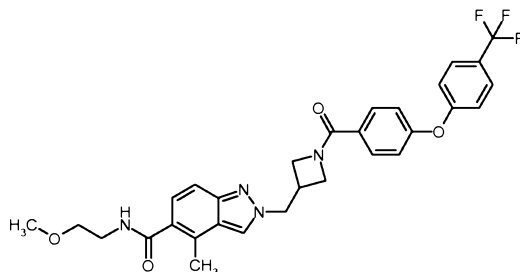


5 Analogously to Example 1, 76 mg of the title compound was obtained from 163 mg of the compound prepared in Example 117e and 78 mg of 4-cyclopropylbenzoic acid.

¹H-NMR (300 MHz, DMSO-d₆): δ = 0.71 (2H), 0.99 (2H), 1.95 (1H), 2.52 (3H), 3.24 (1H), 3.34-3.41 (5H), 3.45 (2H), 3.90 (1H), 4.09 (1H), 4.20 (1H), 4.38 (1H), 4.68 (2H), 7.12 (2H), 7.18 (1H), 7.41 (1H), 7.48 (2H), 8.12 (1H), 8.57 (1H).

10

Example 125: N-(2-methoxyethyl)-4-methyl-2-[(1-{4-[4-(trifluoromethyl)phenoxy]benzoyl}azetidin-3-yl)methyl]-2H-indazol-5-carboxamide

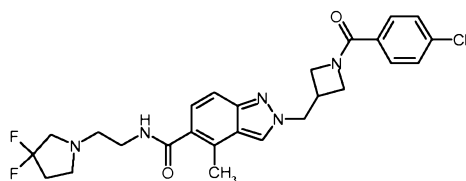


15 Analogously to Example 1, 478 mg of the title compound was obtained from 1.20 g of the compound prepared in Example 117e and 850 mg of 4-[4-(trifluoromethyl)phenoxy]benzoic acid.

¹H-NMR (300 MHz, DMSO-d₆): δ = 2.52 (3H), 3.25 (1H), 3.27 (3H), 3.39 (2H), 3.45 (2H), 3.94 (1H), 4.12 (1H), 4.24 (1H), 4.42 (1H), 4.70 (2H), 7.14 (2H), 7.18 (1H), 7.22 (2H), 7.41 (1H), 7.69 (2H), 7.77 (2H), 8.12 (1H), 8.57 (1H).

20

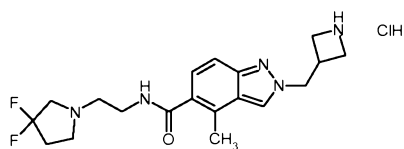
Example 126: 2- {[1-(4-chlorobenzoyl)azetidin-3-yl]methyl}-N-[2-(3,3-difluoropyrrolidin-1-yl)ethyl]-4-methyl-2H-indazol-5-carboxamide



25 Analogously to Example 55, 38 mg of the title compound was obtained from 43 mg of the compound prepared in Example 126a and 20 mg of 4-chlorobenzoyl chloride.

¹H-NMR (300 MHz, DMSO-d₆): δ = 2.10-2.27 (3H), 2.49 (3H), 2.57 (2H), 2.72 (2H), 2.91 (2H), 3.17-3.36 (2H), 3.89 (1H), 4.08 (1H), 4.19 (1H), 4.36 (1H), 4.67 (2H), 7.14 (1H), 7.38 (1H), 7.48 (2H), 7.59 (2H), 8.05 (1H), 8.54 (1H).

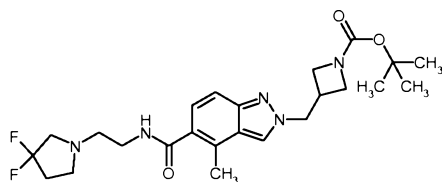
- 5 **Example 126a:** 2-(azetidin-3-ylmethyl)-N-[2-(3,3-difluoropyrrolidin-1-yl)ethyl]-4-methyl-2H-indazol-5-carboxamide hydrochloride



Analogously to Example 1a, from 50 mg of the compound prepared in Example 126b, 43 mg of the title compound was obtained, which was reacted without further purification.

10

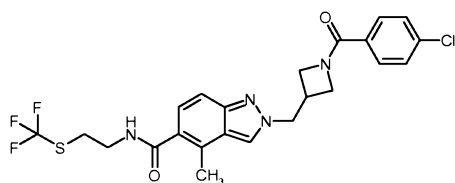
- Example 126b:** Tert-butyl 3-[(5-{N-[2-(3,3-difluoropyrrolidin-1-yl)ethyl]carbamoyl}-4-methyl-2H-indazol-2-yl)methyl]azetidin-1-carboxylate



- 15 Analogously to Example 1b, 71 mg of the title compound was obtained from 70 mg of the compound prepared in Example 117a and 83 mg of 2-(3,3-difluoropyrrolidin-1-yl)ethylamine.

¹H-NMR (300 MHz, DMSO-d₆): 1.32 (9H), 2.10-2.28 (2H), 2.50 (3H), 2.57 (2H), 2.66-2.77 (2H), 2.84-2.98 (2H), 3.08 (1H), 3.23-3.36 (2H), 3.69 (2H), 3.86 (2H), 4.60 (2H), 7.14 (1H), 7.39 (1H), 8.05 (1H), 8.55 (1H).

- 20 **Example 127:** 2-{[1-(4-chlorobenzoyl)azetidin-3-yl]methyl}-4-methyl-N-{2-[(trifluoromethyl)sulphonyl]ethyl}-2H-indazol-5-carboxamide

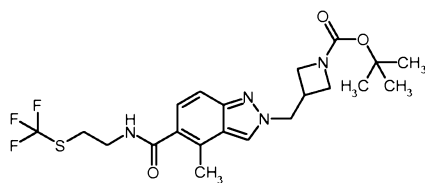


Analogously to Example 55, 143 mg of the title compound was obtained from 130 mg of the compound prepared in Example 127b and 61 mg of 4-chlorobenzoyl chloride.

- 25 ¹H-NMR (300 MHz, DMSO-d₆): δ = 2.51 (3H), 3.13-3.29 (3H), 3.50 (2H), 3.90 (1H), 4.09 (1H), 4.19 (1H), 4.37 (1H), 4.67 (2H), 7.19 (1H), 7.40 (1H), 7.48 (2H), 7.59 (2H), 8.38 (1H), 8.57 (1H).

The starting material was prepared as follows:

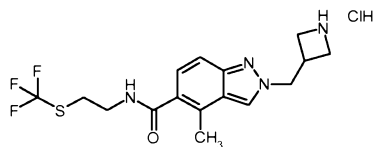
Example 127a: Tert-butyl 3-{[4-methyl-5-(N-{2-[(trifluoromethyl)sulphanyl]ethyl} carbamoyl)-indazol-2-yl]methyl}azetidin-1-carboxylate



Analogously to Example 1, 674 mg of the title compound was obtained from 500 mg of the compound prepared in Example 117c.

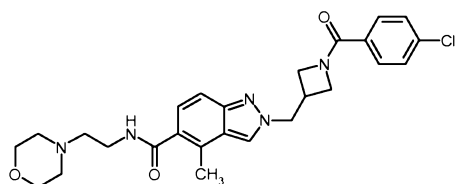
¹H-NMR (300 MHz, DMSO-d₆): δ = 1.32 (9H), 2.52 (3H), 3.08 (1H), 3.17 (2H), 3.50 (2H), 3.69 (2H), 3.86 (2H), 4.61 (2H), 7.19 (1H), 7.41 (1H), 8.38 (1H), 8.57 (1H).

Example 127b: 2-(azetidin-3-ylmethyl)-4-methyl-N-{2-[(trifluoromethyl)sulphanyl]ethyl}-2H-indazol-5-carboxamide hydrochloride



Analogously to Example 1a, from 150 mg of the compound prepared in Example 127a, 130 mg of the title compound was obtained, which was further reacted without purification.

Example 128: 2-{[1-(4-chlorobenzoyl)azetidin-3-yl]methyl}-4-methyl-N-(2-morpholinoethyl)-2H-indazol-5-carboxamide

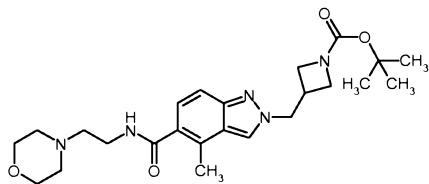


Analogously to Example 55, 30 mg of the title compound was obtained from 50 mg of the compound prepared in Example 128b and 24 mg of 4-chlorobenzoyl chloride.

¹H-NMR (300 MHz, DMSO-d₆): δ = 2.34-2.45 (6H), 2.51 (3H), 3.22 (1H), 3.33 (2H), 3.54 (4H), 3.89 (1H), 4.08 (1H), 4.19 (1H), 4.36 (1H), 4.67 (2H), 7.15 (1H), 7.38 (1H), 7.48 (2H), 7.59 (2H), 7.99 (1H), 8.54 (1H).

The starting material was prepared as follows:

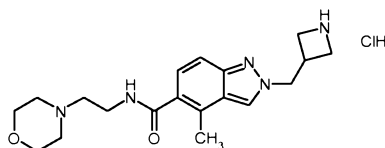
Example 128a: Tert-butyl 3-(4-methyl-5-[N-(2-morpholinoethyl)carbamoyl]-2H-indazol-2-yl)methyl)azetidin-1-carboxylate



Analogously to Example 1b, 59 mg of the title compound was obtained from 200 mg of the compound prepared in Example 117a and 205 mg of 2-morpholinoethylamine.

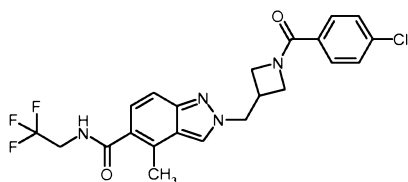
¹H-NMR (300 MHz, DMSO-d₆): δ = 1.32 (9H), 2.34-2.44 (6H), 2.52 (3H), 3.08 (1H), 3.33 (2H), 3.54 (4H), 3.69 (2H), 3.86 (2H), 4.61 (2H), 7.15 (1H), 7.39 (1H), 7.98 (1H), 8.55 (1H).

Example 128b: 2-(azetidin-3-ylmethyl)-4-methyl-N-(2-morpholinoethyl)-2H-indazole-5-carboxamide hydrochloride



Analogously to Example 1a, from 59 mg of the compound prepared in Example 128a, 63 mg of the title compound was obtained, which was further reacted without purification.

Example 129: 2-([1-(4-chlorobenzoyl)azetidin-3-yl]methyl)-4-methyl-N-(2,2,2-trifluoroethyl)-2H-indazole-5-carboxamide

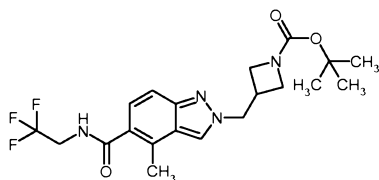


Analogously to Example 55, 127 mg of the title compound was obtained from 128 mg of the compound prepared in Example 129b and 68 mg of 4-chlorobenzoyl chloride.

¹H-NMR (300 MHz, DMSO-d₆): δ = 2.50 (3H), 3.22 (1H), 3.90 (1H), 3.96-4.13 (3H), 4.19 (1H), 4.37 (1H), 4.68 (2H), 7.18 (1H), 7.42 (1H), 7.48 (2H), 7.59 (2H), 8.59 (1H), 8.79 (1H).

The starting material was prepared as follows:

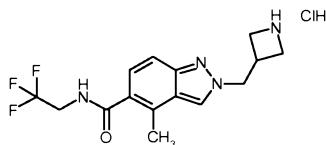
Example 129a: Tert-butyl 3-(4-methyl-5-[N-(2,2,2-trifluoroethyl)carbamoyl]-2H-indazol-2-yl)methyl)azetidin-1-carboxylate



Analogously to Example 1, 1.02 g of the title compound was obtained from 1.0 g of the compound prepared in Example 117c and 287 mg of 2,2,2-trifluoroethylamine.

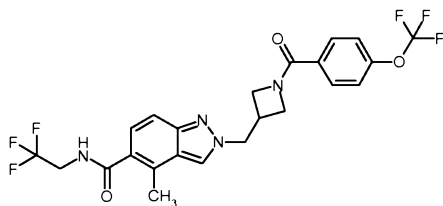
¹H-NMR (300 MHz, DMSO-d₆): δ = 1.32 (9H), 2.51 (3H), 3.09 (1H), 3.70 (2H), 3.86 (2H), 4.03 (2H), 4.62 (2H), 7.17 (1H), 7.43 (1H), 8.60 (1H), 8.79 (1H).

Example 129b: 2-(azetidin-3-ylmethyl)-4-methyl-N-(2,2,2-trifluoroethyl)-2H-indazol-5-carboxamide hydrochloride



Analogously to Example 1a, from 1.0 g of the compound prepared in Example 129a, 852 mg of the title compound was obtained, which was further reacted without purification.

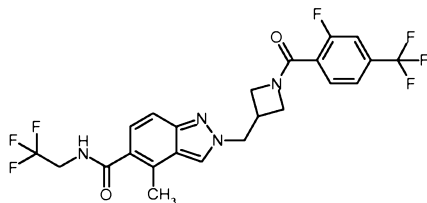
Example 130: 4-methyl-N-(2,2,2-trifluoroethyl)-2-({1-[4-(trifluoromethoxy)benzoyl]azetidin-3-yl} methyl)-2H-indazol-5-carboxamide



Analogously to Example 55, 113 mg of the title compound was obtained from 128 mg of the compound prepared in Example 129b and 87 mg of 4-(trifluoromethoxy)benzoyl chloride.

¹H-NMR (300 MHz, DMSO-d₆): δ = 2.50 (3H), 3.23 (1H), 3.92 (1H), 3.96-4.14 (3H), 4.20 (1H), 4.39 (1H), 4.68 (2H), 7.18 (1H), 7.36-7.46 (3H), 7.70 (2H), 8.59 (1H), 8.79 (1H).

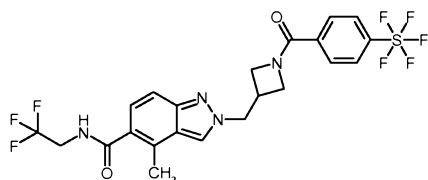
Example 131: 2-({1-[2-fluoro-4-(trifluoromethyl)benzoyl]azetidin-3-yl} methyl)-4-methyl-N-(2,2,2-trifluoroethyl)-2H-indazol-5-carboxamide



Analogously to Example 55, 128 mg of the title compound was obtained from 128 mg of the compound prepared in Example 129b and 88 mg of 2-fluoro-4-(trifluoromethyl)benzoyl chloride.

¹H-NMR (300 MHz, DMSO-d₆): δ = 2.49 (3H), 3.23 (1H), 3.89-4.16 (6H), 4.67 (2H), 7.17 (1H), 7.42 (1H), 7.60-7.67 (2H), 7.79 (1H), 8.58 (1H), 8.80 (1H).

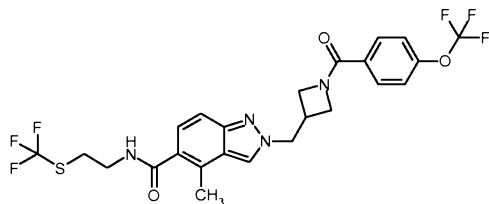
Example 132: 4-methyl-2-({1-[4-(pentafluoro-λ⁶-sulphonyl)benzoyl]azetidin-3-yl}methyl)-N-(2,2,2-trifluoroethyl)-2H-indazol-5-carboxamide



Analogously to Example 1, 121 mg of the title compound was obtained from 128 mg of the compound prepared in Example 129b and 96 mg of 4-(pentafluoro-λ⁶-sulfonyl)benzoic acid.

¹H-NMR (300 MHz, DMSO-d₆): δ = 2.50 (3H), 3.24 (1H), 3.94 (1H), 3.98-4.08 (2H), 4.12 (1H), 4.20 (1H), 4.39 (1H), 4.69 (2H), 7.18 (1H), 7.42 (1H), 7.76 (2H), 7.95 (2H), 8.59 (1H), 8.80 (1H).

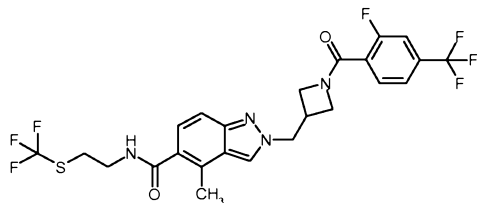
Example 133: 4-methyl-2-({1-[4-(trifluoromethoxy)benzoyl]azetidin-3-yl}methyl)-N-{2-[(trifluoromethyl)sulphonyl]ethyl}-2H-indazol-5-carboxamide



Analogously to Example 55, 178 mg of the title compound was obtained from 130 mg of the compound prepared in Example 127b and 78 mg of 4-(trifluoromethoxy)benzoyl chloride.

¹H-NMR (300 MHz, DMSO-d₆): δ = 2.51 (3H), 3.13-3.28 (3H), 3.51 (2H), 3.91 (1H), 4.10 (1H), 4.20 (1H), 4.39 (1H), 4.67 (2H), 7.19 (1H), 7.40 (3H), 7.70 (2H), 8.38 (1H), 8.57 (1H).

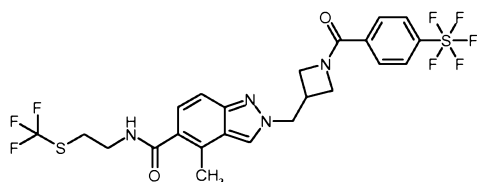
Example 134: 2-({1-[2-fluoro-4-(trifluoromethyl)benzoyl]azetidin-3-yl}methyl)-4-methyl-N-{2-[(trifluoromethyl)sulphonyl]ethyl}-2H-indazol-5-carboxamide



Analogously to Example 55, 128 mg of the title compound was obtained from 130 mg of the compound prepared in Example 127b and 79 mg of 2-fluoro-4-(trifluoromethyl)benzoyl chloride.

¹H-NMR (300 MHz, DMSO-d₆): δ = 2.51 (3H), 3.12-3.25 (3H), 3.50 (2H), 3.89-3.98 (2H),
 5 4.06-4.16 (2H), 4.67 (2H), 7.19 (1H), 7.40 (1H), 7.64 (2H), 7.79 (1H), 8.39 (1H), 8.56 (1H).

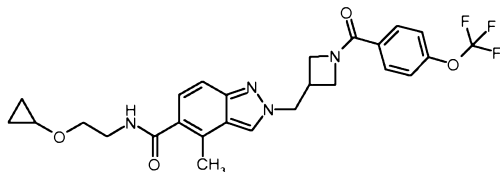
Example 135: 4-methyl-2-({1-[4-(pentafluoro-λ⁶-sulphonyl)benzoyl]azetidin-3-yl}methyl)-N-{2-[(trifluoromethyl)sulphonyl]ethyl}-2H-indazol-5-carboxamide



10 Analogously to Example 1, 84 mg of the title compound was obtained from 130 mg of the compound prepared in Example 127b and 87 mg of 4-(pentafluoro-λ⁶-sulphonyl)benzoic acid.

¹H-NMR (300 MHz, DMSO-d₆): δ = 2.51 (3H), 3.18 (2H), 3.23 (1H), 3.51 (2H), 3.94 (1H), 4.12 (1H), 4.20 (1H), 4.39 (1H), 4.68 (2H), 7.19 (1H), 7.41 (1H), 7.76 (2H), 7.95 (2H), 8.39 (1H),
 15 8.56 (1H).

Example 136: N-[2-(cyclopropyloxy)ethyl]-4-methyl-2-({1-[4-(trifluoromethoxy)benzoyl]azetidin-3-yl}methyl)-2H-indazol-5-carboxamide

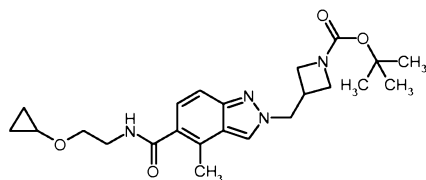


Analogously to Example 55, 172 mg of the title compound was obtained from 161 mg of the
 20 compound prepared in Example 136b and 109 mg of 4-(trifluoromethoxy)benzoyl chloride.

¹H-NMR (300 MHz, DMSO-d₆): δ = 0.36-0.48 (4H), 2.48 (3H), 3.22 (1H), 3.27 (1H), 3.35 (2H), 3.53 (2H), 3.91 (1H), 4.10 (1H), 4.20 (1H), 4.39 (1H), 4.67 (2H), 7.14 (1H), 7.35-7.44 (3H), 7.71 (2H), 8.11 (1H), 8.54 (1H).

25 The starting material was prepared as follows:

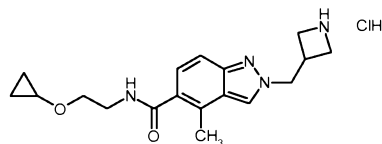
Example 136a: Tert-butyl 3-[(5-{N-[2-(cyclopropyloxy)ethyl]carbamoyl}-4-methyl-2H-indazol-2-yl)methyl]azetidin-1-carboxylate



Analogously to Example 1, 189 mg of the title compound was obtained from 150 mg of the compound prepared in Example 118c and 140 mg of 2-cyclopropoxy-ethylammonium trifluoroacetate (preparable according to Example 154a) and 154b) starting from cyclopropanol and bromoacetamide followed by Boc cleavage with trifluoroacetic acid analogously to Example 1a)).

¹H-NMR (300 MHz, DMSO-d₆): δ = 0.36-0.48 (4H), 1.33 (9H), 2.49 (3H), 3.08 (1H), 3.25-3.39 (3H), 3.53 (2H), 3.70 (2H), 3.87 (2H), 4.61 (2H), 7.14 (1H), 7.38 (1H), 8.10 (1H), 8.54 (1H).

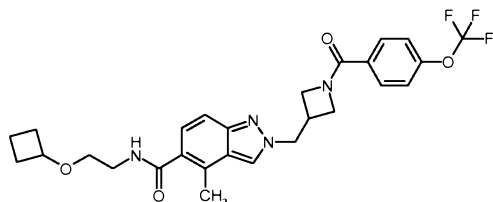
Example 136b: 2-(azetidin-3-ylmethyl)-N-[(2-cyclopropyloxy)ethyl]-4-methyl-2H-indazol-5-carboxamide hydrochloride



Analogously to Example 1a, from 189 mg of the compound prepared in Example 136a, 161 mg of the title compound was obtained, which was further reacted without purification.

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Example 137: N-[2-(cyclobutyloxy)ethyl]-4-methyl-2-({1-[4-(trifluoromethoxy)benzoyl]azetidin-3-yl}methyl)-2H-indazol-5-carboxamide

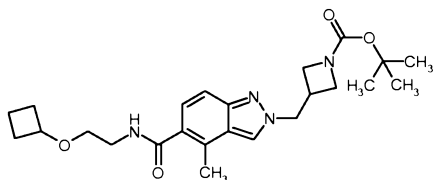


Analogously to Example 55, 207 mg of the title compound was obtained from 254 mg of the compound prepared in Example 137b and 166 mg of 4-(trifluoromethoxy)benzoyl chloride.

¹H-NMR (300 MHz, DMSO-d₆): δ = 1.42 (1H), 1.59 (1H), 1.80 (2H), 2.11 (2H), 2.50 (3H), 3.17-3.28 (1H), 3.31-3.41 (4H), 3.85-3.95 (2H), 4.10 (1H), 4.20 (1H), 4.39 (1H), 4.67 (2H), 7.15 (1H), 7.35-7.44 (3H), 7.71 (2H), 8.11 (1H), 8.54 (1H).

25 The starting material was prepared as follows:

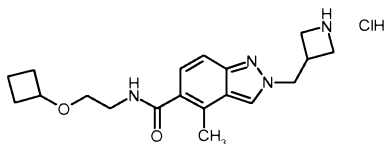
Example 137a: Tert-butyl 3-[(5-{N-[2-(cyclobutyloxy)ethyl]carbamoyl}-4-methyl-2H-indazol-2-yl)methyl]azetidin-1-carboxylate



Analogously to Example 1, 297 mg of the title compound was obtained from 220 mg of the compound prepared in Example 117c and 143 mg of 2-(cyclobutyloxy)ethylammonium trifluoroacetate (preparable according to Example 154a) and 154b) starting from cyclobutanol and bromoacetamide followed by Boc cleavage with trifluoroacetic acid analogously to Example 1a)).

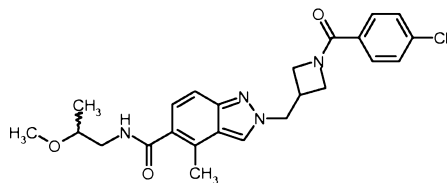
¹H-NMR (300 MHz, DMSO-d₆): δ = 1.33 (9H), 1.35-1.49 (1H), 1.59 (1H), 1.80 (2H), 2.11 (2H), 2.50 (3H), 3.08 (1H), 3.30-3.41 (4H), 3.69 (2H), 3.82-3.95 (3H), 4.61 (2H), 7.15 (1H), 7.38 (1H), 8.10 (1H), 8.54 (1H).

Example 137b: 2-(azetidin-3-ylmethyl)-N-[(2-(cyclobutyloxy)ethyl]-4-methyl-2H-indazol-5-carboxamide hydrochloride



Analogously to Example 1a, from 297 mg of the compound prepared in Example 137a, 254 mg of the title compound was obtained, which was further reacted without purification.

Example 138: (+/-)-2-{[1-(4-chlorobenzoyl)azetidin-3-yl]methyl}-N-(2-methoxypropyl)-4-methyl-2H-indazol-5-carboxamide

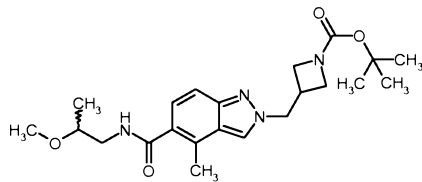


Analogously to Example 55, 166 mg of the title compound was obtained from 237 mg of the compound prepared in Example 138b and 129 mg of 4-chlorobenzoyl chloride.

¹H-NMR (300 MHz, DMSO-d₆): δ = 1.07 (3H), 2.49 (3H), 3.14-3.28 (3H), 3.43 (1H), 3.89 (1H), 4.08 (1H), 4.19 (1H), 4.36 (1H), 4.67 (2H), 7.15 (1H), 7.38 (1H), 7.48 (2H), 7.59 (2H), 8.11 (1H), 8.54 (1H).

The starting material was prepared as follows:

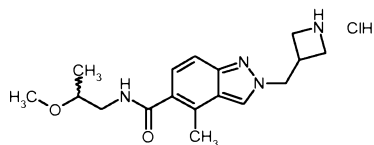
Example 138a: (+/-)-tert-butyl 3-({5-[N-(2-methoxypropyl)carbamoyl]-4-methyl-2H-indazol-2-yl}methyl)azetidin-1-carboxylate



Analogously to Example 1, 331 mg of the title compound was obtained from 323 mg of the compound prepared in Example 117c and 117 mg of 2-methoxypropylamine.

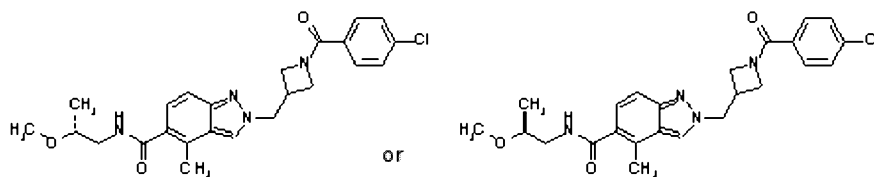
¹H-NMR (300 MHz, DMSO-d₆): δ = 1.08 (3H), 1.33 (9H), 2.50 (3H), 3.09 (1H), 3.16-3.31 (2H), 3.44 (1H), 3.69 (2H), 3.85 (2H), 4.61 (2H), 7.15 (1H), 7.39 (1H), 8.08 (1H), 8.54 (1H).

Example 138b: (+/-)-2-(azetidin-3-ylmethyl)-N-(2-methoxypropyl)-4-methyl-2H-indazol-5-carboxamide hydrochloride



Analogously to Example 1a, from 280 mg of the compound prepared in Example 138a, 247 mg of the title compound was obtained, which was further reacted without purification.

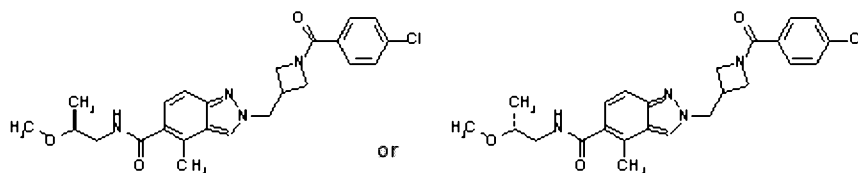
Example 139: (R or S)-2-{[1-(4-chlorobenzoyl)azetidin-3-yl]methyl}-N-(2-methoxypropyl)-4-methyl-2H-indazol-5-carboxamide



From 158 mg of the racemate prepared in Example 138, 52 mg of the title compound together with 48 mg of the slower-eluting enantiomer (Example 140) were obtained by racemate separation by means of preparative chiral HPLC (Method A).

Analytical chiral HPLC: 14.5 min.

Example 140: (S or R)-2-{[1-(4-chlorobenzoyl)azetidin-3-yl]methyl}-N-(2-methoxypropyl)-4-methyl-2H-indazol-5-carboxamide

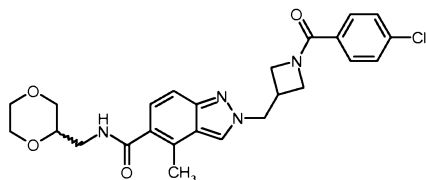


From 158 mg of the racemate prepared in Example 138, 48 mg of the title compound together with 52 mg of the faster-eluting enantiomer (Example 139) were obtained by racemate separation by means of preparative chiral HPLC (Method A).

Analytical chiral HPLC: 17.1 min.

5

Example 141: (+/-)-2-{[1-(4-chlorobenzoyl)azetidin-3-yl]methyl}-N-(1,4-dioxan-2-ylmethyl)-4-methyl-2H-indazol-5-carboxamide

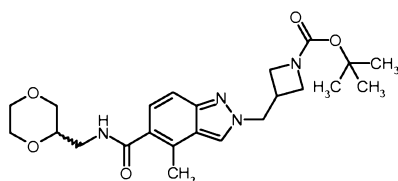


Analogously to Example 55, 177 mg of the title compound was obtained from 269 mg of the compound prepared in Example 141b and 136 mg of 4-chlorobenzoyl chloride.

¹H-NMR (300 MHz, DMSO-d₆): δ = 2.49 (3H), 3.13-3.28 (4H), 3.38-3.66 (4H), 3.67-3.77 (2H), 3.89 (1H), 4.08 (1H), 4.19 (1H), 4.37 (1H), 4.67 (2H), 7.15 (1H), 7.38 (1H), 7.48 (2H), 7.59 (2H), 8.17 (1H), 8.55 (1H).

15 The starting material was prepared as follows:

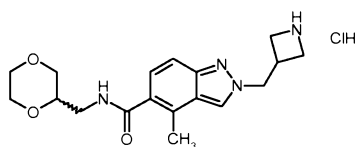
Example 141a: (+/-)-tert-butyl 3-({5-[N-(1,4-dioxan-2-ylmethyl)carbamoyl]-4-methyl-2H-indazol-2-yl}methyl)azetidin-1-carboxylate



20 Analogously to Example 1, 364 mg of the title compound was obtained from 323 mg of the compound prepared in Example 117c and 110 mg of 1,4-dioxan-2-ylmethylamine.

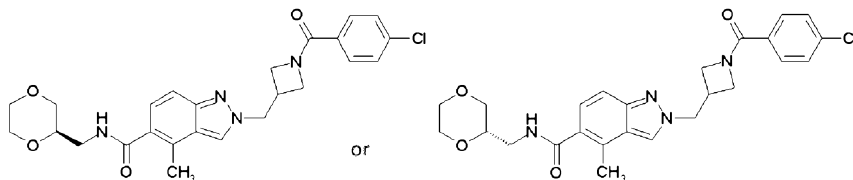
¹H-NMR (300 MHz, DMSO-d₆): δ = 1.33 (9H), 2.50 (3H), 3.09 (1H), 3.16-3.29 (3H), 3.40-3.77 (8H), 3.86 (2H), 4.61 (2H), 7.16 (1H), 7.39 (1H), 8.14 (1H), 8.55 (1H).

25 **Example 141b:** (+/-)-2-(azetidin-3-ylmethyl)-N-(1,4-dioxan-2-ylmethyl)-4-methyl-2H-indazol-5-carboxamide hydrochloride



Analogously to Example 1a, from 314 mg of the compound prepared in Example 141a, 274 mg of the title compound was obtained, which was further reacted without purification.

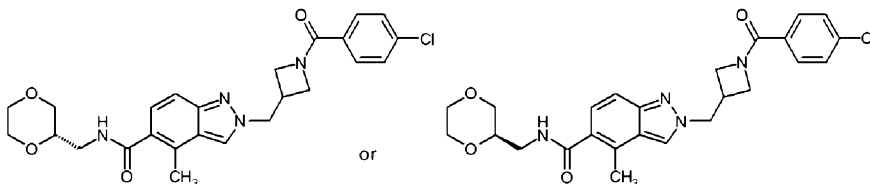
Example 142: (R or S)-2-{[1-(4-chlorobenzoyl)azetidin-3-yl]methyl}-N-(1,4-dioxan-2-ylmethyl)-4-methyl-2H-indazol-5-carboxamide



From 172 mg of the racemate prepared in Example 141, 60 mg of the title compound together with 60 mg of the slower-eluting enantiomer (Example 143) were obtained by racemate separation by means of preparative chiral HPLC (Method B).

Analytical chiral HPLC: 5.84 min.

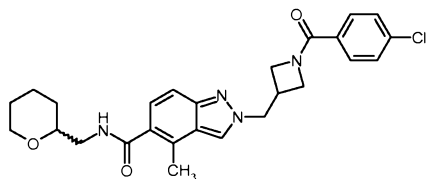
Example 143: (S or R)-2-{[1-(4-chlorobenzoyl)azetidin-3-yl]methyl}-N-(1,4-dioxan-2-ylmethyl)-4-methyl-2H-indazol-5-carboxamide



From 172 mg of the racemate prepared in Example 141, 60 mg of the title compound together with 60 mg of the faster-eluting enantiomer (Example 142) were obtained by racemate separation by means of preparative chiral HPLC (Method B).

Analytical chiral HPLC: 6.28 min.

Example 144: (+/-)-2-{[1-(4-chlorobenzoyl)azetidin-3-yl]methyl}-4-methyl-N-(3,4,5,6-tetrahydro-2H-pyran-2-ylmethyl)-2H-indazol-5-carboxamide

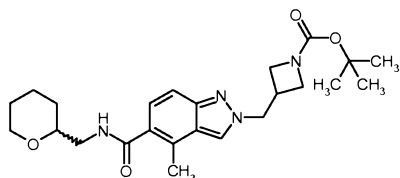


Analogously to Example 55, 144 mg of the title compound was obtained from 255 mg of the compound prepared in Example 144b and 130 mg of 4-chlorobenzoyl chloride.

¹H-NMR (300 MHz, DMSO-d₆): δ = 1.10-1.23 (1H), 1.35-1.47 (3H), 1.61 (1H), 1.71-1.81 (1H), 2.48 (3H), 3.15-3.27 (4H), 3.37 (1H), 3.80-3.93 (2H), 4.08 (1H), 4.19 (1H), 4.36 (1H), 4.66 (2H), 7.14 (1H), 7.37 (1H), 7.48 (2H), 7.59 (2H), 8.09 (1H), 8.54 (1H).

The starting material was prepared as follows:

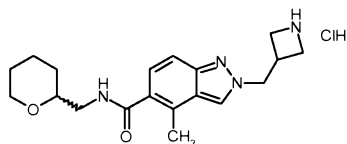
Example 144a: (+/-)-tert-butyl 3-({4-methyl-5-[N-(3,4,5,6-tetrahydro-2H-pyran-2-ylmethyl)-carbamoyl]-2H-indazol-2-yl}methyl)azetidin-1-carboxylate



Analogously to Example 1, 342 mg of the title compound was obtained from 323 mg of the compound prepared in Example 117c and 141 mg of 3,4,5,6-tetrahydro-2H-pyran-2-ylmethylamine hydrochloride.

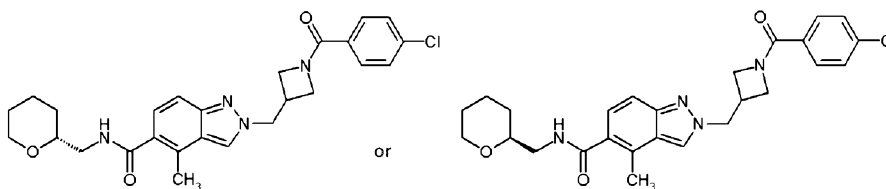
¹H-NMR (300 MHz, DMSO-d₆): δ = 1.14-1.21 (1H), 1.33 (9H), 1.37-1.49 (3H), 1.61 (1H), 1.71-1.80 (1H), 2.49 (3H), 3.09 (1H), 3.21 (2H), 3.27-3.43 (2H), 3.69 (2H), 3.81-3.91 (3H), 4.61 (2H), 7.15 (1H), 7.38 (1H), 8.06 (1H), 8.53 (1H).

Example 144b: (+/-)-2-(azetidin-3-ylmethyl)-4-methyl-N-(3,4,5,6-tetrahydro-2H-pyran-2-ylmethyl)-2H-indazole-5-carboxamide hydrochloride



Analogously to Example 1a, from 298 mg of the compound prepared in Example 144a, 261 mg of the title compound was obtained, which was further reacted without purification.

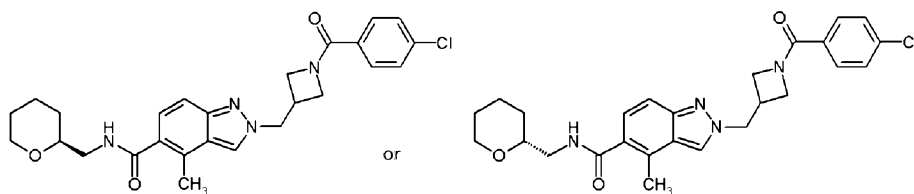
Example 145: (R or S)-2-{{[1-(4-chlorobenzoyl)azetidin-3-yl]methyl}-4-methyl-N-(3,4,5,6-tetrahydro-2H-pyran-2-ylmethyl)-2H-indazol-5-carboxamide



From 140 mg of the racemate prepared in Example 144, 43 mg of the title compound together with 35 mg of the slower-eluting enantiomer (Example 146) were obtained by racemate separation by means of preparative chiral HPLC (Method C).

Analytical chiral HPLC: 4.38 min.

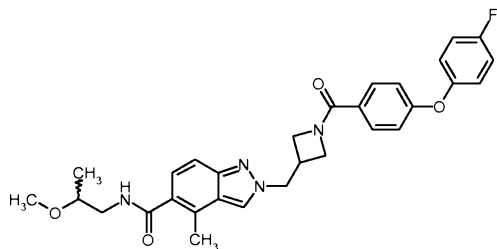
Example 146: (S or R)-2-([1-(4-chlorobenzoyl)azetidin-3-yl]methyl)-4-methyl-N-(3,4,5,6-tetrahydro-2H-pyran-2-ylmethyl)-2H-indazol-5-carboxamide



From 140 mg of the racemate prepared in Example 144, 35 mg of the title compound together with 43 mg of the faster-eluting enantiomer (Example 145) were obtained by racemate separation by means of preparative chiral HPLC (Method C).

Analytical chiral HPLC: 4.88 min.

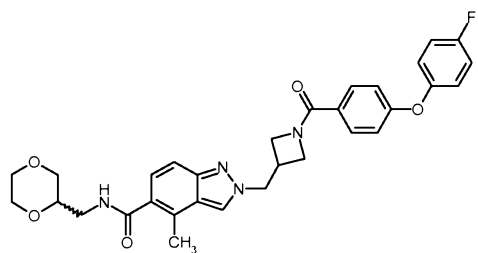
Example 147: (+/-)-2-([1-[4-(4-fluorophenoxy)benzoyl]azetidin-3-yl]methyl)-N-(2-methoxypropyl)-4-methyl-2H-indazol-5-carboxamide



Analogously to Example 1, from 42 mg of the compound prepared in Example 138b and 28 mg of 4-(4-fluorophenoxy)benzoic acid, a material still contaminated after HPLC purification was obtained, which was further purified by an additional preparative thick layer chromatography with ethyl acetate / methanol in the ratio 9:1 as mobile phase. Yield in this manner: 15 mg of the title compound.

¹H-NMR (300 MHz, CDCl₃): δ = 1.22 (3H), 2.64 (3H), 3.28 (1H), 3.36 (3H), 3.40 (1H), 3.57 (1H), 3.76 (1H), 3.97-4.46 (4H), 4.66 (2H), 6.14 (1H), 6.93 (2H), 6.97-7.11 (4H), 7.32 (1H), 7.51 (1H), 7.60 (2H), 8.00 (1H).

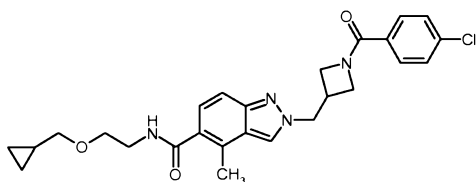
Example 148: (+/-)-N-(1,4-dioxan-2-ylmethyl)-2-([1-[4-(4-fluorophenoxy)benzoyl]azetidin-3-yl]methyl)-4-methyl-2H-indazol-5-carboxamide



Analogously to Example 1, 18 mg of the title compound was obtained from 43 mg of the compound prepared in Example 141b and 26 mg of 4-(4-fluorophenoxy)benzoic acid.

¹H-NMR (300 MHz, DMSO-d₆): δ = 2.49 (3H), 3.13-3.28 (4H), 3.38-3.66 (4H), 3.67-3.77 (2H), 3.89 (1H), 4.07 (1H), 4.19 (1H), 4.37 (1H), 4.66 (2H), 6.94 (2H), 7.08-7.18 (3H), 7.24 (2H), 7.38 (1H), 7.60 (2H), 8.17 (1H), 8.55 (1H).

Example 149: 2-{[1-(4-chlorobenzoyl)azetidin-3-yl]methyl}-N-[2-(cyclopropylmethoxy)ethyl]-4-methyl-2H-indazol-5-carboxamide

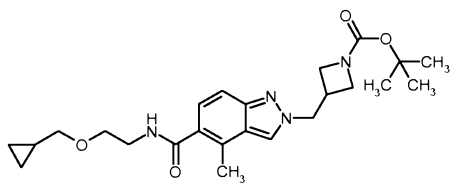


Analogously to Example 55, 72 mg of the title compound was obtained from 127 mg of the compound prepared in Example 149b and 65 mg of 4-chlorobenzoyl chloride.

¹H-NMR (300 MHz, DMSO-d₆): δ = 0.17 (2H), 0.45 (2H), 0.99 (1H), 2.51-2.54 (3H), 3.20-3.28 (3H), 3.38 (2H), 3.51 (2H), 3.92 (1H), 4.11 (1H), 4.21 (1H), 4.39 (1H), 4.69 (2H), 7.18 (1H), 7.40 (1H), 7.50 (2H), 7.62 (2H), 8.12 (1H), 8.56 (1H).

The starting material was prepared as follows:

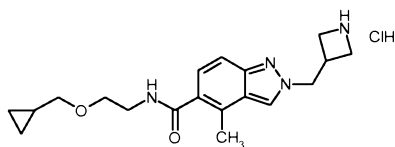
Example 149a: Tert-butyl 3-[(5-{N-[2-(cyclopropylmethoxy)ethyl]carbamoyl}-4-methyl-2H-indazol-2-yl)methyl]azetidin-1-carboxylate



Analogously to Example 1, 448 mg of the title compound was obtained from 400 mg of the compound prepared in Example 117c and 133 mg of 2-(cyclopropylmethoxy)ethylamine hydrochloride.

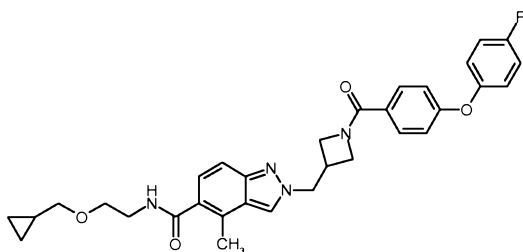
¹H-NMR (300 MHz, DMSO-d₆): δ = 0.14 (2H), 0.42 (2H), 0.97 (1H), 1.33 (9H), 2.50 (3H), 3.09 (1H), 3.24 (2H), 3.36 (2H), 3.49 (2H), 3.69 (2H), 3.86 (2H), 4.61 (2H), 7.15 (1H), 7.38 (1H), 8.08 (1H), 8.54 (1H).

Example 149b: 2-(azetidin-3-ylmethyl)-N-[2-(cyclopropylmethoxy)ethyl]-4-methyl-2H-indazol-5-carboxamide hydrochloride



Analogously to Example 1a, from 448 mg of the compound prepared in Example 149a, 390 mg of the title compound was obtained, which was further reacted without purification.

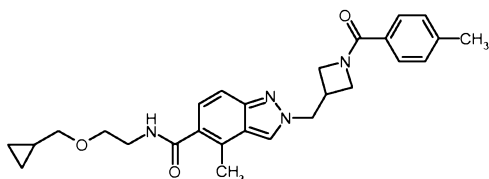
- 5 **Example 150:** N-[2-(cyclopropylmethoxy)ethyl]-2-(1-[4-(4-fluorophenoxy)benzoyl]azetidin-3-yl)methyl)-4-methyl-2H-indazol-5-carboxamide



Analogously to Example 1, 48 mg of the title compound was obtained from 102 mg of the compound prepared in Example 149b and 63 mg of 4-(4-fluorophenoxy)benzoic acid.

- 10 ¹H-NMR (300 MHz, CDCl₃): δ = 0.20 (2H), 0.54 (2H), 1.05 (1H), 2.65 (3H), 3.32 (2H), 3.35-3.45 (1H), 3.63-3.75 (4H), 3.99-4.50 (4H), 4.66 (2H), 6.22 (1H), 6.93 (2H), 6.97-7.11 (4H), 7.34 (1H), 7.51 (1H), 7.61 (2H), 8.00 (1H).

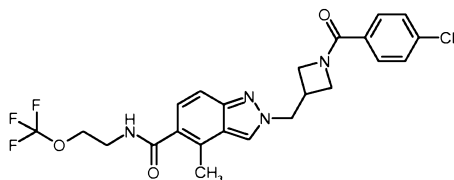
- 15 **Example 151:** N-[2-(cyclopropylmethoxy)ethyl]-4-methyl-2-{[1-(4-methylbenzoyl)azetidin-3-yl]methyl}-2H-indazol-5-carboxamide



Analogously to Example 1, 55 mg of the title compound was obtained from 127 mg of the compound prepared in Example 149b and 46 mg of 4-methylbenzoic acid.

- 20 ¹H-NMR (300 MHz, DMSO-d₆): δ = 0.17 (2H), 0.45 (2H), 0.99 (1H), 2.33 (3H), 2.53 (3H), 3.19-3.28 (3H), 3.38 (2H), 3.51 (2H), 3.90 (1H), 4.09 (1H), 4.20 (1H), 4.38 (1H), 4.69 (2H), 7.18 (1H), 7.24 (2H), 7.41 (1H), 7.50 (2H), 8.11 (1H), 8.57 (1H).

Example 152: 2-{[1-(4-chlorobenzoyl)azetidin-3-yl]methyl}-4-methyl-N-[2-(trifluoromethoxy)ethyl]-2H-indazol-5-carboxamide

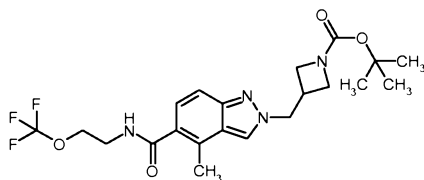


Analogously to Example 55, 122 mg of the title compound was obtained from 234 mg of the compound prepared in Example 152b and 115 mg of 4-chlorobenzoyl chloride.

¹H-NMR (300 MHz, DMSO-d₆): δ = 2.52 (3H), 3.25 (1H), 3.54 (2H), 3.93 (1H), 4.11 (1H), 4.17-4.25 (3H), 4.40 (1H), 4.70 (2H), 7.19 (1H), 7.43 (1H), 7.50 (2H), 7.61 (2H), 8.38 (1H), 8.58 (1H).

The starting material was prepared as follows:

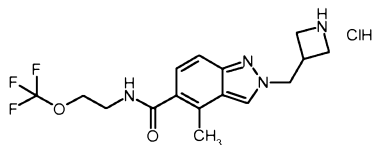
Example 152a: Tert-butyl 3-[(4-methyl-5-{N-[2-(trifluoromethoxy)ethyl]carbamoyl}-2H-indazol-2-yl)methyl]azetidin-1-carboxylate



Analogously to Example 1, 272 mg of the title compound was obtained from 250 mg of the compound prepared in Example 117c and 120 mg of 2-(trifluoromethoxy)ethylamine hydrochloride.

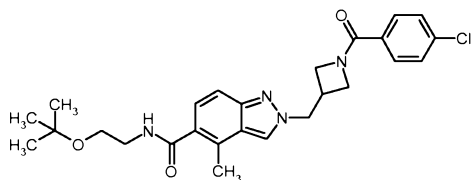
¹H-NMR (300 MHz, DMSO-d₆): δ = 1.32 (9H), 2.50 (3H), 3.08 (1H), 3.51 (2H), 3.70 (2H), 3.86 (2H), 4.17 (2H), 4.61 (2H), 7.16 (1H), 7.41 (1H), 8.36 (1H), 8.56 (1H).

Example 152b: 2-(azetidin-3-ylmethyl)-4-methyl-N-[2-(trifluoromethoxy)ethyl]-2H-indazol-5-carboxamide hydrochloride



Analogously to Example 1a, from 272 mg of the compound prepared in Example 152a, 240 mg of the title compound was obtained, which was further reacted without purification.

Example 153: N-(2-tert-butoxyethyl)-2-{[1-(4-chlorobenzoyl)azetidin-3-yl]methyl}-4-methyl-2H-indazol-5-carboxamide

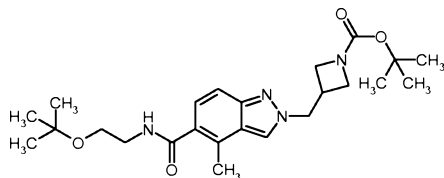


Analogously to Example 55) 12 mg of the title compound was obtained from 160 mg of the compound prepared in Example 153b) and 81 mg of 4-chlorobenzoyl chloride.

¹H-NMR (300 MHz, DMSO-d₆): δ = 1.14 (9H), 2.53 (3H), 3.19-3.34 (3H), 3.43 (2H), 3.92 (1H), 4.11 (1H), 4.21 (1H), 4.39 (1H), 4.69 (2H), 7.18 (1H), 7.40 (1H), 7.50 (2H), 7.62 (2H), 8.05 (1H), 8.56 (1H).

The starting material was prepared as follows:

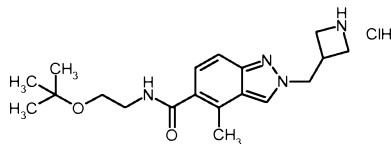
Example 153a: Tert-butyl 3-(5-[N-(2-tert-butoxyethyl)carbamoyl]-4-methyl-2H-indazol-2-yl)-methylazetidin-1-carboxylate



Analogously to Example 1, 284 mg of the title compound was obtained from 250 mg of the compound prepared in Example 117c) and 111 mg of 2-tert-butoxyethylamine hydrochloride.

¹H-NMR (300 MHz, DMSO-d₆): δ = 1.11 (9H), 1.32 (9H), 2.50 (3H), 3.08 (1H), 3.27 (2H), 3.40 (2H), 3.69 (2H), 3.86 (2H), 4.60 (2H), 7.15 (1H), 7.38 (1H), 8.04 (1H), 8.54 (1H).

Example 153b: 2-(azetidin-3-ylmethyl)-N-(2-tert-butoxyethyl)-4-methyl-2H-indazol-5-carboxamide hydrochloride

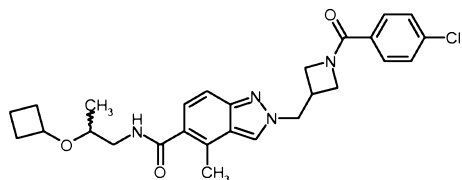


20

Analogously to Example 1a, from 284 mg of the compound prepared in Example 153a, 240 mg of the title compound was obtained, which was further reacted without purification.

Example 154: (+/-)-2-{[1-(4-chlorobenzoyl)azetidin-3-yl]methyl}-N-[2-(cyclobutyloxy)propyl]-4-methyl-2H-indazol-5-carboxamide

25

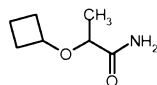


Analogously to Example 55, 135 mg of the title compound was obtained from 222 mg of the compound prepared in Example 154d and 109 mg of 4-chlorobenzoyl chloride.

¹H-NMR (300 MHz, DMSO-d₆): δ = 1.05 (3H), 1.39 (1H), 1.55 (1H), 1.80 (2H), 2.11 (2H), 2.50 (3H), 3.08-3.23 (3H), 3.55 (1H), 3.89 (1H), 4.03-4.13 (1H), 4.19 (1H), 4.37 (1H), 4.67 (2H), 7.15 (1H), 7.38 (1H), 7.48 (2H), 7.59 (2H), 8.07 (1H), 8.53 (1H).

The starting material was prepared as follows:

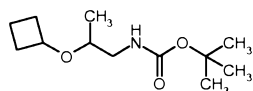
10 **Example 154a:** (+/-)-2-(cyclobutyloxy)-propanamide



To a suspension of 732 mg of sodium hydride in 15 ml THF, 2.0 g of cyclobutanol in 0.5 ml THF were added dropwise and stirred for 30 minutes at 25°C. The reaction mixture was then cooled to 0°C and 2.11 g of (+/-) 2-bromopropanamide in 0.5 ml tetrahydrofuran were added dropwise and then stirred for 18 hours at 25°C. The reaction mixture was poured onto ice-water and extracted once with 75 ml dichloromethane. The organic phase was washed with saturated sodium chloride solution, dried over sodium sulphate and concentrated in vacuo after filtration. The crude product thus obtained was purified by column chromatography on silica gel with hexane / 0-50% ethyl acetate. Yield: 0.79 g of the title compound.

20 ¹H-NMR (300 MHz, DMSO-d₆): δ = 1.14 (3H), 1.38 (1H), 1.56 (1H), 1.83 (2H), 2.08 (2H), 3.62 (1H), 3.90 (1H), 7.07 (2H).

Example 154b: (+/-)-tert-butyl N-[2-(cyclobutyloxy)propyl]carbamate



25 To a suspension of 6.9 g of lithium aluminium hydride in 250 ml THF, 6.5 g of the amide prepared in Example 154a in 81 ml THF were cautiously added dropwise at 0°C. The mixture was then first stirred for 30 minutes at 0°C and then heated for 5 hours under reflux. After cooling, the mixture was cautiously treated with 20 g of sodium sulphate decahydrate and 20 g of potassium fluoride and solid matter removed by filtration shortly afterwards. The filtrate was concentrated in vacuo. The residue thus obtained (5.8 g) was dissolved without further purification in 174 ml dichloromethane and treated with 11.9 g of di-tert-butyl dicarbonate. After

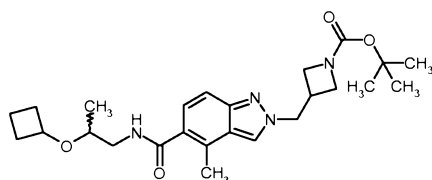
30

16 hours' stirring at 25°C, this was concentrated in vacuo and the residue thus obtained purified by two-fold column chromatography on silica gel with hexane / 0-40% ethyl acetate.

Yield: 8.54 g of the title compound.

¹H-NMR (300 MHz, DMSO-d₆): δ = 0.94 (3H), 1.28-1.42 (10H), 1.53 (1H), 1.76 (2H), 2.07 (2H), 2.76 (1H), 2.90 (1H), 3.34 (1H), 3.92 (1H), 6.72 (1H).

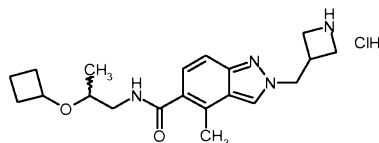
Example 154c: (+/-)-tert-butyl 3-[(5-{N-[2-(cyclobutyloxy)propyl]carbamoyl}-4-methyl-2H-indazol-2-yl)methyl]azetidin-1-carboxylate



Analogously to Example 1a, from 200 mg of the compound prepared in Example 154b), 2-(cyclobutyloxy)propylamine was obtained as the hydrochloride, which without further purification together with 250 mg of the compound prepared in Example 117c analogously to Example 1, yielded 259 mg of the title compound.

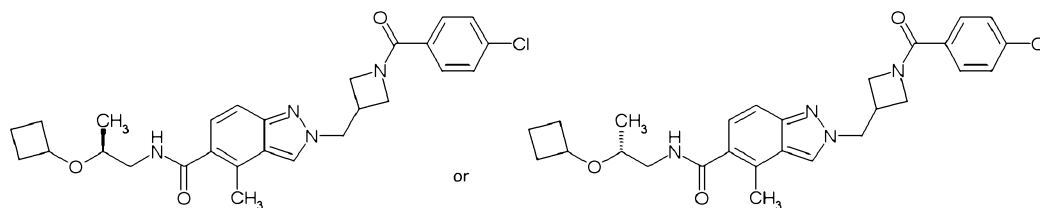
¹H-NMR (300 MHz, DMSO-d₆): δ = 1.05 (3H), 1.32 (9H), 1.39 (1H), 1.55 (1H), 1.80 (2H), 2.11 (2H), 2.50 (3H), 3.02-3.17 (2H), 3.22 (1H), 3.54 (1H), 3.69 (2H), 3.86 (2H), 3.99 (1H), 4.61 (2H), 7.15 (1H), 7.39 (1H), 8.09 (1H), 8.55 (1H).

Example 154d: (+/-)-2-(azetidin-3-ylmethyl)-N-[2-(cyclobutyloxy)propyl]-4-methyl-2H-indazol-5-carboxamide hydrochloride



Analogously to Example 1a, from 259 mg of the compound prepared in Example 154c, 225 mg of the title compound was obtained, which was further reacted without purification.

Example 155: (S or R)-2-[[1-(4-chlorobenzoyl)azetidin-3-yl]methyl]-N-[2-(cyclobutyloxy)propyl]-4-methyl-2H-indazol-5-carboxamide

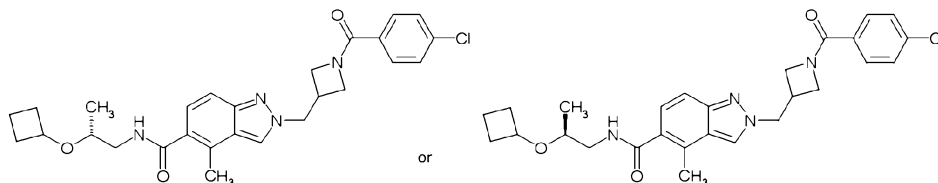


From 135 mg of the racemate prepared in Example 154, 41 mg of the title compound together with 21 mg of the slower-eluting enantiomer (Example 156) were obtained by racemate separation by means of preparative chiral HPLC (Method A).

Analytical chiral HPLC: 10.05 min.

5

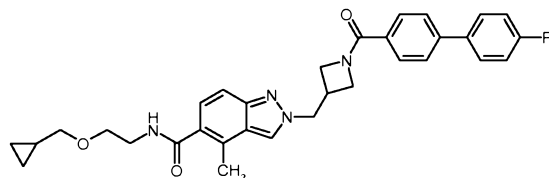
Example 156: (R or S)-2-{{1-[4-chlorobenzoyl]azetidin-3-yl}methyl}-N-[2-(cyclobutyloxy)-propyl]-4-methyl-2H-indazol-5-carboxamide



From 135 mg of the racemate prepared in Example 154, 21 mg of the title compound together with 41 mg of the faster-eluting enantiomer (Example 155) were obtained by racemate separation by means of preparative chiral HPLC (Method A).

Analytical chiral HPLC: 13.14 min.

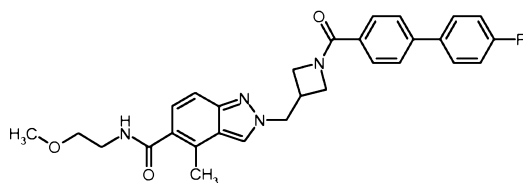
Example 157: N-[2-(cyclopropylmethoxy)ethyl]-2-({1-[(4'-fluorobiphenyl-4-yl)carbonyl]azetidin-3-yl}methyl)-4-methyl-2H-indazol-5-carboxamide



Analogously to Example 1, 54 mg of the title compound was obtained from 102 mg of the compound prepared in Example 149b and 58 mg of 4'-fluorobiphenyl-4-carboxylic acid.

¹H-NMR (300 MHz, CDCl₃): δ = 0.20 (2H), 0.54 (2H), 1.05 (1H), 2.66 (3H), 3.32 (2H), 3.42 (1H), 3.61-3.73 (4H), 4.09 (1H), 4.28 (1H), 4.38 (1H), 4.49 (1H), 4.69 (2H), 6.22 (1H), 7.10-7.18 (2H), 7.26 (2H), 7.35 (1H), 7.50-7.59 (3H), 7.70 (2H), 8.01 (1H).

Example 158: 2-({1-[(4'-fluorobiphenyl-4-yl)carbonyl]azetidin-3-yl}methyl)-N-(2-methoxyethyl)-4-methyl-2H-indazol-5-carboxamide

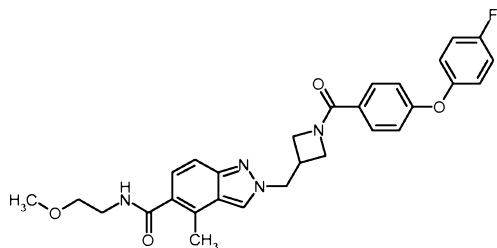


25

Analogously to Example 1, 54 mg of the title compound was obtained from 108 mg of the compound prepared in Example 117e and 69 mg of 4'-fluorobiphenyl-4-carboxylic acid.

¹H-NMR (300 MHz, DMSO-d₆): δ = 2.49 (3H), 3.17-3.29 (4H), 3.36 (2H), 3.43 (2H), 3.92 (1H), 4.11 (1H), 4.24 (1H), 4.42 (1H), 4.68 (2H), 7.15 (1H), 7.29 (2H), 7.39 (1H), 7.63-7.78 (6H), 8.12 (1H), 8.56 (1H).

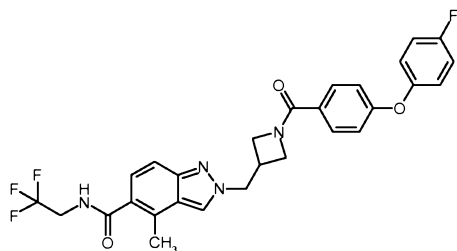
- 5 **Example 159:** 2-($\{1-[4-(4\text{-fluorophenoxy})\text{benzoyl}]\text{azetidin-3-yl}\}$ methyl)-N-(2-methoxyethyl)-4-methyl-2H-indazol-5-carboxamide



Analogously to Example 1, 28 mg of the title compound was obtained from 108 mg of the compound prepared in Example 117e and 74 mg of 4-(4-fluorophenoxy)benzoic acid.

- 10 ¹H-NMR (300 MHz, CDCl₃): δ = 2.65 (3H), 3.31-3.46 (4H), 3.58 (2H), 3.67 (2H), 4.06 (1H), 4.24 (1H), 4.40 (2H), 4.66 (2H), 6.15 (1H), 6.89-7.13 (6H), 7.33 (1H), 7.51 (1H), 7.61 (2H), 8.00 (1H).

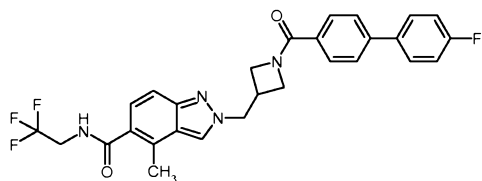
- 15 **Example 160:** 2-($\{1-[4-(4\text{-fluorophenoxy})\text{benzoyl}]\text{azetidin-3-yl}\}$ methyl)-4-methyl-N-(2,2,2-trifluoroethyl)-2H-indazol-5-carboxamide



Analogously to Example 1, 47 mg of the title compound was obtained from 115 mg of the compound prepared in Example 129b and 74 mg of 4-(4-fluorophenoxy)benzoic acid.

- 20 ¹H-NMR (300 MHz, CDCl₃): δ = 2.65 (3H), 3.39 (1H), 3.97-4.52 (6H), 4.67 (2H), 6.04 (1H), 6.89-7.12 (6H), 7.31 (1H), 7.53 (1H), 7.60 (2H), 8.03 (1H).

- Example 161:** 2-($\{1-[4'-(4\text{-fluorobiphenyl-4-yl})\text{carbonyl}]\text{azetidin-3-yl}\}$ methyl)-4-methyl-N-(2,2,2-trifluoroethyl)-2H-indazol-5-carboxamide

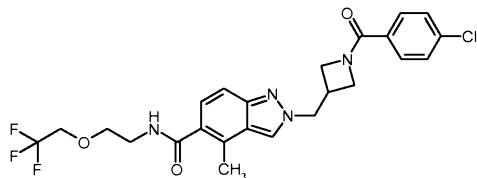


Analogously to Example 1, 28 mg of the title compound was obtained from 115 mg of the compound prepared in Example 129b and 69 mg of 4'-fluorobiphenyl-4-carboxylic acid.

¹H-NMR (300 MHz, DMSO-d₆): δ = 2.65 (3H), 3.42 (1H), 4.01-4.54 (6H), 4.69 (2H), 6.02 (1H), 7.15 (2H), 7.32 (1H), 7.51-7.62 (5H), 7.69 (2H), 8.04 (1H).

5

Example 162: 2-{[1-(4-chlorobenzoyl)azetidin-3-yl]methyl}-4-methyl-N-[2-(2,2,2-trifluoroethoxy)ethyl]-2H-indazol-5-carboxamide

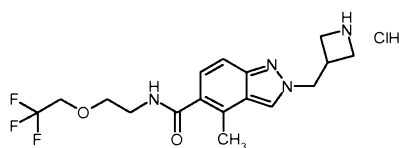


10 Analogously to Example 55, 197 mg of the title compound was obtained from 252 mg of the compound prepared in Example 162a and 108 mg of 4-chlorobenzoyl chloride.

¹H-NMR (300 MHz, DMSO-d₆): δ = 2.49 (3H), 3.22 (1H), 3.40 (2H), 3.69 (2H), 3.90 (1H), 4.03-4.13 (3H), 4.19 (1H), 4.37 (1H), 4.67 (2H), 7.15 (1H), 7.38 (1H), 7.48 (2H), 7.59 (2H), 8.19 (1H), 8.55 (1H).

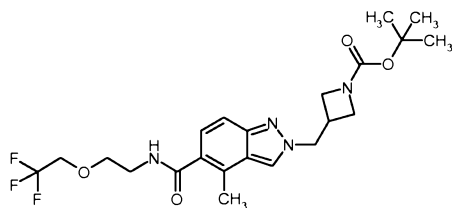
15 The starting material was prepared as follows:

Example 162a: 2-(azetidin-3-ylmethyl)-4-methyl-N-[2-(2,2,2-trifluoroethoxy)ethyl]-2H-indazol-5-carboxamide hydrochloride



20 Analogously to Example 1a, from 583 mg of the compound prepared in Example 162b, 505 mg of the title compound was obtained, which was further reacted without purification.

Example 162b: Tert-butyl 3-[(4-methyl-5-{N-[2-(2,2,2-trifluoroethoxy)ethyl]carbamoyl}-2H-indazol-2-yl)methyl]azetidin-1-carboxylate

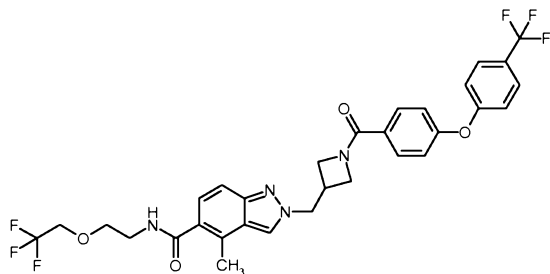


25

Analogously to Example 1, 580 mg of the title compound was obtained from 500 mg of the compound prepared in Example 117c and 260 mg of 2-(2,2,2-trifluoroethoxy)ethylamine hydrochloride.

¹H-NMR (300 MHz, DMSO-d₆): δ = 1.32 (9H), 2.50 (3H), 3.08 (1H), 3.40 (2H), 3.61-3.76 (4H), 3.86 (2H), 4.07 (2H), 4.61 (2H), 7.15 (1H), 7.39 (1H), 8.18 (1H), 8.55 (1H).

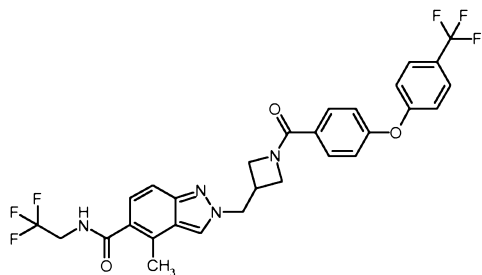
Example 163: 4-methyl-N-[2-(2,2,2-trifluoroethoxy)ethyl]-2-[(1-{4-[4-(trifluoromethyl)phenoxy]benzoyl}azetidin-3-yl)methyl]-2H-indazol-5-carboxamide



Analogously to Example 1, 89 mg of the title compound was obtained from 252 mg of the compound prepared in Example 162a and 175 mg of 4-[4-(trifluoromethyl)phenoxy]benzoic acid.

¹H-NMR (300 MHz, DMSO-d₆): δ = 2.49 (3H), 3.23 (1H), 3.40 (2H), 3.69 (2H), 3.90 (1H), 4.01-4.14 (3H), 4.21 (1H), 4.40 (1H), 4.68 (2H), 7.11 (2H), 7.15 (1H), 7.20 (2H), 7.39 (1H), 7.66 (2H), 7.75 (2H), 8.19 (1H), 8.56 (1H).

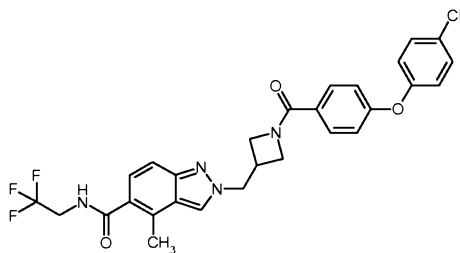
Example 164: 4-methyl-N-(2,2,2-trifluoroethyl)-2-[(1-{4-[4-(trifluoromethyl)phenoxy]benzoyl}azetidin-3-yl)methyl]-2H-indazol-5-carboxamide



Analogously to Example 1, 64 mg of the title compound was obtained from 225 mg of the compound prepared in Example 129b and 149 mg of 4-[4-(trifluoromethyl)phenoxy]benzoic acid.

¹H-NMR (300 MHz, DMSO-d₆): δ = 2.50 (3H), 3.24 (1H), 3.91 (1H), 3.95-4.15 (3H), 4.22 (1H), 4.40 (1H), 4.69 (2H), 7.11 (2H), 7.15-7.23 (3H), 7.43 (1H), 7.66 (2H), 7.75 (2H), 8.60 (1H), 8.79 (1H).

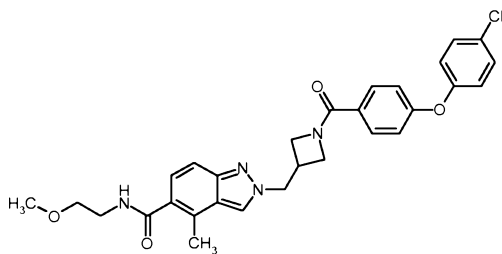
Example 165: 2-({1-[4-(4-chlorophenoxy)benzoyl]azetidin-3-yl}methyl)-4-methyl-N-(2,2,2-trifluoroethyl)-2H-indazol-5-carboxamide



Analogously to Example 1, 97 mg of the title compound was obtained from 225 mg of the compound prepared in Example 129b and 131 mg of 4-(4-chlorophenoxy)benzoic acid.

¹H-NMR (300 MHz, DMSO-d₆): δ = 2.50 (3H), 3.23 (1H), 3.90 (1H), 3.96-4.12 (3H), 4.20 (1H), 4.38 (1H), 4.68 (2H), 7.00 (2H), 7.09 (2H), 7.18 (1H), 7.40-7.48 (3H), 7.62 (2H), 8.60 (1H), 8.79 (1H)

Example 166: 2-(1-[4-(4-chlorophenoxy)benzoyl]azetidin-3-yl)methyl)-N-(2-methoxyethyl)-4-methyl-2H-indazol-5-carboxamide



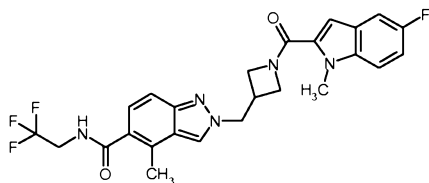
10

Analogously to Example 1, 99 mg of the title compound was obtained from 225 mg of the compound prepared in Example 117e and 140 mg of 4-(4-chlorophenoxy)benzoic acid.

¹H-NMR (300 MHz, DMSO-d₆): δ = 2.49 (3H), 3.16-3.27 (4H), 3.36 (2H), 3.42 (2H), 3.89 (1H), 4.08 (1H), 4.19 (1H), 4.38 (1H), 4.67 (2H), 7.00 (2H), 7.09 (2H), 7.15 (1H), 7.38 (1H), 7.45 (2H), 7.62 (2H), 8.12 (1H), 8.55 (1H).

15

Example 167: 2-(1-[(5-fluoro-1-methyl-1H-indol-2-yl)carbonyl]azetidin-3-yl)methyl)-4-methyl-N-(2,2,2-trifluoroethyl)-2H-indazol-5-carboxamide



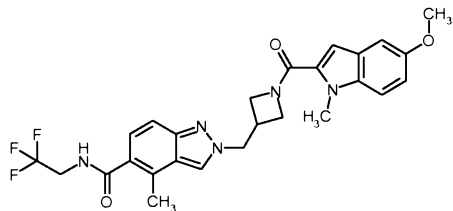
20

Analogously to Example 1, 48 mg of the title compound was obtained from 180 mg of the compound prepared in Example 129b and 82 mg of 5-fluoro-1-methyl-1H-indol-2-carboxylic acid.

¹H-NMR (300 MHz, CDCl₃): δ = 2.66 (3H), 2.80 (3H), 3.36-3.51 (1H), 4.01 (3H), 4.04-4.63 (6H), 4.70 (2H), 6.03 (1H), 6.68 (1H), 7.08 (1H), 7.22-7.36 (3H), 7.55 (1H), 8.05 (1H).

25

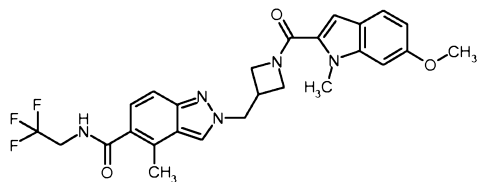
Example 168: 2-(1-[(5-methoxy-1-methyl-1H-indol-2-yl)carbonyl]azetidin-3-yl)methyl)-4-methyl-N-(2,2,2-trifluoroethyl)-2H-indazol-5-carboxamide



Analogously to Example 1, 15 mg of the title compound was obtained from 180 mg of the compound prepared in Example 129b and 87 mg of 5-methoxy-1-methyl-1H-indol-2-carboxylic acid.

¹H-NMR (300 MHz, CDCl₃): δ = 2.66 (3H), 3.43 (1H), 3.84 (3H), 4.00 (3H), 4.03-4.59 (6H), 4.70 (2H), 6.02 (1H), 6.66 (1H), 7.02 (1H), 7.27-7.35 (3H), 7.56 (1H), 8.06 (1H).

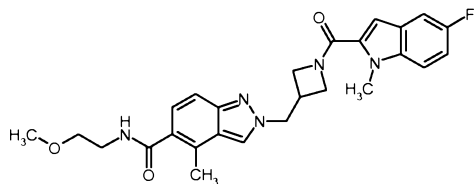
Example 169: 2-(1-[(6-methoxy-1-methyl-1H-indol-2-yl)carbonyl]azetidin-3-yl)methyl)-4-methyl-N-(2,2,2-trifluoroethyl)-2H-indazol-5-carboxamide



Analogously to Example 1, 57 mg of the title compound was obtained from 180 mg of the compound prepared in Example 129b and 87 mg of 6-methoxy-1-methyl-1H-indol-2-carboxylic acid.

¹H-NMR (300 MHz, CDCl₃): δ = 2.66 (3H), 3.43 (1H), 3.89 (3H), 3.99 (3H), 4.05-4.60 (6H), 4.70 (2H), 6.01 (1H), 6.69 (1H), 6.77 (1H), 6.81 (1H), 7.32 (1H), 7.48 (1H), 7.56 (1H), 8.05 (1H).

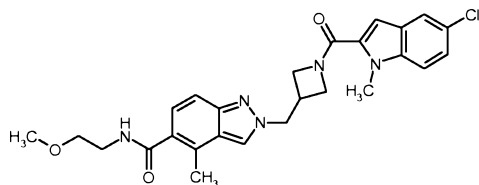
Example 170: 2-(1-[(5-fluoro-1-methyl-1H-indol-2-yl)carbonyl]azetidin-3-yl)methyl)-N-(2-methoxyethyl)-4-methyl-2H-indazol-5-carboxamide



Analogously to Example 1, 95 mg of the title compound was obtained from 180 mg of the compound prepared in Example 117e and 87 mg of 5-fluoro-1-methyl-1H-indol-2-carboxylic acid.

ν NMR (300 MHz, CDCl₃): δ = 2.65 (3H), 3.35-3.51 (4H), 3.58 (2H), 3.67 (2H), 4.01 (3H), 4.02-4.62 (4H), 4.69 (2H), 6.15 (1H), 6.68 (1H), 7.08 (1H), 7.21-7.38 (3H), 7.53 (1H), 8.02 (1H).

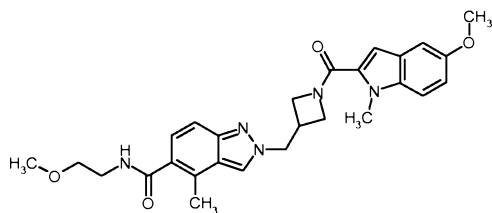
- 5 **Example 171:** 2-($\{1-[(5\text{-chloro-1-methyl-1H-indol-2-yl})\text{carbonyl}]$ azetidin-3-yl $\}$ methyl)-N-(2-methoxyethyl)-4-methyl-2H-indazol-5-carboxamide



Analogously to Example 1, 90 mg of the title compound was obtained from 180 mg of the compound prepared in Example 117e and 95 mg of 5-chloro-1-methyl-1H-indol-2-carboxylic acid.

$^1\text{H-NMR}$ (300 MHz, CDCl₃): δ = 2.66 (3H), 3.37-3.49 (4H), 3.58 (2H), 3.67 (2H), 4.00 (3H), 4.08 (1H), 4.37 (2H), 4.56 (1H), 4.70 (2H), 6.15 (1H), 6.66 (1H), 7.27-7.38 (3H), 7.53 (1H), 7.58 (1H), 8.02 (1H).

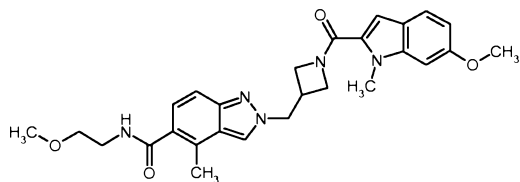
- 15 **Example 172:** N-(2-methoxyethyl)-2-($\{1-[(5\text{-methoxy-1-methyl-1H-indol-2-yl})\text{carbonyl}]$ azetidin-3-yl $\}$ methyl)-4-methyl-2H-indazol-5-carboxamide



Analogously to Example 1, 86 mg of the title compound was obtained from 180 mg of the compound prepared in Example 117e and 93 mg of 5-methoxy-1-methyl-1H-indol-2-carboxylic acid.

$^1\text{H-NMR}$ (300 MHz, CDCl₃): δ = 2.65 (3H), 3.36-3.50 (4H), 3.58 (2H), 3.67 (2H), 3.84 (3H), 4.00 (3H), 4.07 (1H), 4.35 (2H), 4.55 (1H), 4.69 (2H), 6.15 (1H), 6.66 (1H), 6.97-7.06 (2H), 7.28 (1H), 7.34 (1H), 7.53 (1H), 8.02 (1H).

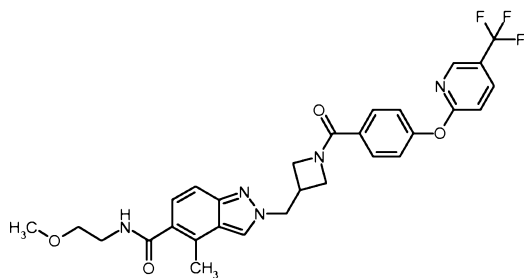
- 25 **Example 173:** N-(2-methoxyethyl)-2-($\{1-[(6\text{-methoxy-1-methyl-1H-indol-2-yl})\text{carbonyl}]$ azetidin-3-yl $\}$ methyl)-4-methyl-2H-indazol-5-carboxamide



Analogously to Example 1, 97 mg of the title compound was obtained from 180 mg of the compound prepared in Example 117e and 93 mg of 6-methoxy-1-methyl-1H-indol-2-carboxylic acid.

¹H-NMR (300 MHz, CDCl₃): δ = 2.66 (3H), 3.37-3.47 (4H), 3.58 (2H), 3.67 (2H), 3.89 (3H),
5 3.99 (3H), 4.02-4.60 (4H), 4.69 (2H), 6.15 (1H), 6.69 (1H), 6.77 (1H), 6.81 (1H), 7.34 (1H),
7.48 (1H), 7.53 (1H), 8.02 (1H).

Example 174: N-(2-methoxyethyl)-4-methyl-2-{[1-(4-{[5-(trifluoromethyl)pyridin-2-yl]oxy} benzoyl)azetidin-3-yl]methyl}-2H-indazol-5-carboxamide

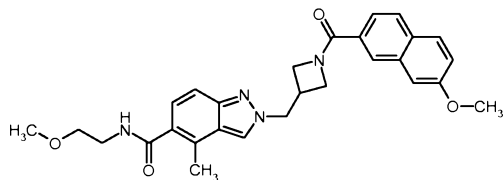


10

Analogously to Example 1, 66 mg of the title compound was obtained from 135 mg of the compound prepared in Example 117e and 96 mg of 4-{[5-(trifluoromethyl)pyridin-2-yl]oxy}-benzoic acid.

¹H-NMR (300 MHz, DMSO-d₆): δ = 2.50 (3H), 3.18-3.27 (4H), 3.36 (2H), 3.42 (2H), 3.91
15 (1H), 4.10 (1H), 4.24 (1H), 4.42 (1H), 4.68 (2H), 7.15 (1H), 7.24 (2H), 7.28 (1H), 7.39 (1H),
7.67 (2H), 8.12 (1H), 8.24 (1H), 8.56 (2H).

Example 175: N-(2-methoxyethyl)-2-{[1-(7-methoxy-2-naphthoyl)azetidin-3-yl]methyl}-4-methyl-2H-indazol-5-carboxamide

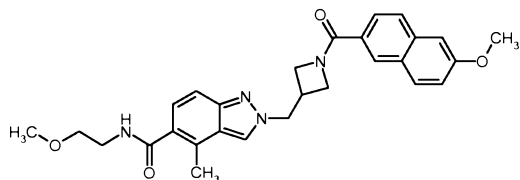


20

Analogously to Example 1, 72 mg of the title compound was obtained from 135 mg of the compound prepared in Example 117e and 69 mg of 7-methoxy-naphthalen-2-carboxylic acid.

¹H-NMR (300 MHz, DMSO-d₆): δ = 2.50 (3H), 3.21-3.28 (4H), 3.36 (2H), 3.42 (2H), 3.85
(3H), 3.93-3.99 (1H), 4.14 (1H), 4.26 (1H), 4.47 (1H), 4.69 (2H), 7.15 (1H), 7.22 (1H), 7.38
25 (1H), 7.43 (1H), 7.50 (1H), 7.81-7.88 (2H), 8.05 (1H), 8.12 (1H), 8.56 (1H).

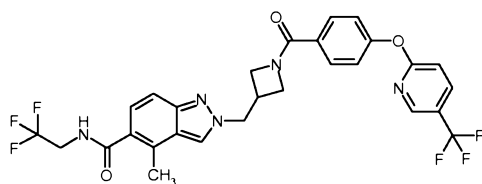
Example 176: N-(2-methoxyethyl)-2-{[1-(6-methoxy-2-naphthoyl)azetidin-3-yl]methyl}-4-methyl-2H-indazol-5-carboxamide



Analogously to Example 1, 72 mg of the title compound was obtained from 135 mg of the compound prepared in Example 117e and 69 mg of 6-methoxynaphthalen-2-carboxylic acid.

¹H-NMR (300 MHz, DMSO-d₆): δ = 2.49 (3H), 3.21-3.28 (4H), 3.33-3.39 (2H), 3.42 (2H), 3.86 (3H), 3.91-3.98 (1H), 4.13 (1H), 4.27 (1H), 4.48 (1H), 4.69 (2H), 7.15 (1H), 7.19 (1H), 7.34 (1H), 7.38 (1H), 7.63 (1H), 7.82 (1H), 7.92 (1H), 8.08-8.14 (2H), 8.56 (1H).

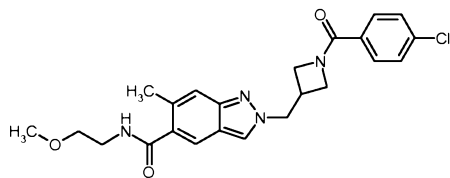
Example 177: 4-methyl-N-(2,2,2-trifluoroethyl)-2- {[1-(4- {[5-(trifluoromethyl)pyridin-2-yl]oxy}benzoyl)azetidin-3-yl]methyl}-2H-indazol-5-carboxamide



Analogously to Example 1, 68 mg of the title compound was obtained from 170 mg of the compound prepared in Example 129b and 113 mg of 4- {[5-(trifluoromethyl)pyridin-2-yl]oxy}benzoic acid.

¹H-NMR (300 MHz, DMSO-d₆): δ = 2.35 (3H), 3.21 (1H), 3.89 (1H), 3.96-4.13 (3H), 4.21 (1H), 4.40 (1H), 4.68 (2H), 7.24 (2H), 7.28 (1H), 7.40 (1H), 7.66 (2H), 7.72 (1H), 8.24 (1H), 8.48 (1H), 8.56 (1H), 8.89 (1H).

Example 178: 2- {[1-(4-chlorobenzoyl)azetidin-3-yl]methyl}-N-(2-methoxyethyl)-6-methyl-2H-indazol-5-carboxamide

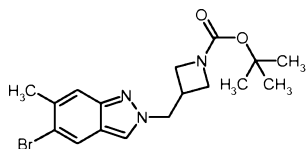


Analogously to Example 55, 154 mg of the title compound was obtained from 210 mg of the compound prepared in Example 178e and 119 mg of 4-chlorobenzoyl chloride.

¹H-NMR (300 MHz, DMSO-d₆): δ = 2.34 (3H), 3.19 (1H), 3.24 (3H), 3.34 (2H), 3.42 (2H), 3.87 (1H), 4.07 (1H), 4.16 (1H), 4.34 (1H), 4.65 (2H), 7.35 (1H), 7.48 (2H), 7.59 (2H), 7.63 (1H), 8.21 (1H), 8.41 (1H).

The starting material was prepared as follows:

Example 178a: Tert-butyl 3-[(5-bromo-6-methyl-2H-indazol-2-yl)methyl]azetidin-1-carboxylate

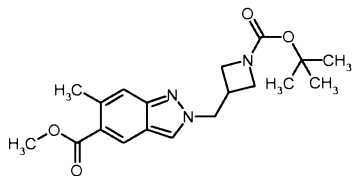


- 5 To a solution of 6.18 g of 5-bromo-6-methyl-1H-indazole and 15 g of tert-butyl-3-[(tosyloxy)methyl]azetidin-1-carboxylate in 200 ml DMF were added 9.54 g of caesium carbonate and 10.8 g of tetrabutylammonium iodide at 25°C, and this was then heated under reflux for 1.5 hrs. After cooling, the reaction mixture was treated with 1:1 hexane / ether and water, the phases separated and the aqueous phase extracted twice with 250 ml portions of 1:1 hexane / ether. The combined organic phases were washed with saturated sodium chloride solution, dried over sodium sulphate, and concentrated in vacuo after filtration.
- 10

The residue thus obtained was purified by twofold column chromatography on silica gel with hexane / 0-20% ethyl acetate. 2.88 g of the title compound was obtained.

- ¹H-NMR (300 MHz, DMSO-d₆): δ = 1.32 (9H), 2.37 (3H), 3.05 (1H), 3.67 (2H), 3.85 (2H), 4.59 (2H), 7.56 (1H), 7.97 (1H), 8.33 (1H).
- 15

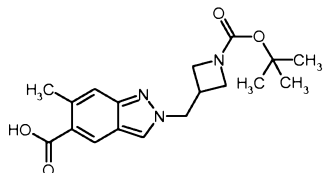
Example 178b: Methyl 2-{[1-(tert-butoxycarbonyl)azetidin-3-yl]methyl}-6-methyl-2H-indazol-5-carboxylate



- 20 To a solution of 730 mg of the bromide prepared in Example 178a in 17.5 ml tetrahydrofuran were added 0.23 ml of methanol, 145 mg of trans-bis(acetato)-bis[o-(di-o-tolylphosphino)-benzyl]dipalladium(II), 877 mg of DBU and 760 mg of molybdenum hexacarbonyl. This reaction mixture was then heated in the microwave (120 watts) for 20 minutes at 125°C. Seven further preparations were performed in the same manner and all worked up together. For this, they were concentrated in vacuo and the residue taken up in water and ethyl acetate. After phase separation, the aqueous phase was extracted three times with 75 ml portions of ethyl acetate and the combined organic phases washed with saturated sodium chloride solution, dried over sodium sulphate and concentrated in vacuo after filtration. The residue thus obtained was purified by twofold column chromatography on silica gel with hexane / 0-30% ethyl acetate. Yield: 4.0 g of the title compound.
- 25
- 30

¹H-NMR (300 MHz, DMSO-d₆): δ = 1.32 (9H), 2.52 (3H), 3.07 (1H), 3.69 (2H), 3.86 (2H), 3.78 (3H), 4.62 (2H), 7.43 (1H), 8.33 (1H), 8.53 (1H).

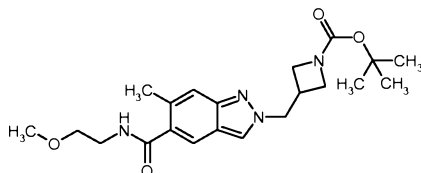
Example 178c: 2-{{1-(tert-butoxycarbonyl)azetidin-3-yl}methyl}-6-methyl-2H-indazol-5-carboxylic acid



Analogously to Example 1d, 3.2 g of the title compound was obtained from 4.0 g of the ester prepared in Example 178b.

¹H-NMR (300 MHz, DMSO-d₆): δ = 1.32 (9H), 2.53 (3H), 3.07 (1H), 3.69 (2H), 3.86 (2H), 4.61 (2H), 7.39 (1H), 8.31 (1H), 8.50 (1H), 12.48 (1H).

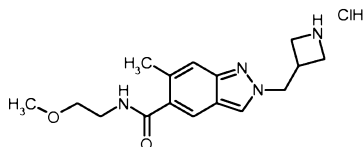
Example 178d: Tert-butyl 3-({5-[N-(2-methoxyethyl)carbamoyl]-6-methyl-2H-indazol-2-yl}-methyl)azetidin-1-carboxylate



Analogously to Example 1, 603 mg of the title compound was obtained from 500 mg of the acid prepared in Example 178c and 109 mg of 2-methoxyethylamine.

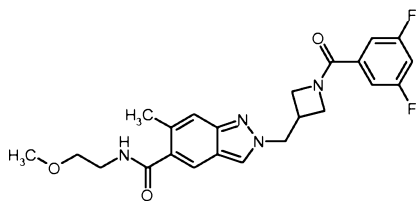
¹H-NMR (300 MHz, DMSO-d₆): δ = 1.32 (9H), 2.34 (3H), 3.06 (1H), 3.25 (3H), 3.32-3.45 (4H), 3.67 (2H), 3.84 (2H), 4.59 (2H), 7.35 (1H), 7.64 (1H), 8.21 (1H), 8.41 (1H).

Example 178e: 2-(azetidin-3-ylmethyl)-N-(2-methoxyethyl)-6-methyl-2H-indazol-5-carboxamide hydrochloride



Analogously to Example 1a, from 250 mg of the amide prepared in Example 178d, 275 mg of the title compound was obtained, which was reacted without further purification.

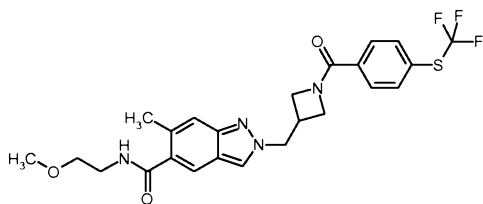
Example 179: 2-{{1-(3,5-Difluorobenzoyl)azetidin-3-yl}methyl}-N-(2-methoxyethyl)-6-methyl-2H-indazol-5-carboxamide



Analogously to Example 55, 51 mg of the title compound was obtained from 77 mg of the compound prepared in Example 178e and 44 mg of 3,5-difluorobenzoyl chloride.

¹H-NMR (300 MHz, DMSO-d₆): δ = 2.33 (3H), 3.18 (1H), 3.24 (3H), 3.34 (2H), 3.42 (2H), 3.87 (1H), 4.03-4.11 (1H), 4.20 (1H), 4.38 (1H), 4.65 (2H), 7.20-7.28 (2H), 7.34 (1H), 7.36-7.45 (2H), 7.64 (1H), 8.22 (1H), 8.42 (1H).

Example 180: N-(2-methoxyethyl)-6-methyl-2-[(1-{4-[(trifluoromethyl)sulphonyl]benzoyl}azetidin-3-yl)methyl]-2H-indazol-5-carboxamide



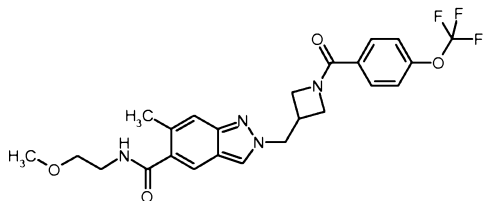
10

Analogously to Example 55, 30 mg of the title compound was obtained from 43 mg of the compound prepared in Example 178e and 34 mg of 4-[(trifluoromethyl)sulphonyl]benzoyl chloride.

¹H-NMR (300 MHz, DMSO-d₆): δ = 2.34 (3H), 3.20 (1H), 3.24 (3H), 3.34 (2H), 3.42 (2H), 3.89 (1H), 4.09 (1H), 4.17 (1H), 4.36 (1H), 4.65 (2H), 7.34 (1H), 7.63 (1H), 7.69 (2H), 7.76 (2H), 8.21 (1H), 8.41 (1H).

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Example 181: N-(2-methoxyethyl)-6-methyl-2-[(1-{4-(trifluoromethoxy)benzoyl}azetidin-3-yl)methyl]-2H-indazol-5-carboxamide



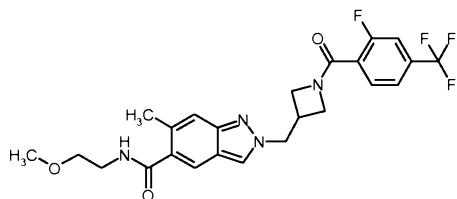
20

Analogously to Example 55, 221 mg of the title compound was obtained from 294 mg of the compound prepared in Example 178e and 214 mg of 4-(trifluoromethoxy)benzoyl chloride.

¹H-NMR (300 MHz, DMSO-d₆): δ = 2.34 (3H), 3.20 (1H), 3.25 (3H), 3.34 (2H), 3.42 (2H), 3.89 (1H), 4.08 (1H), 4.18 (1H), 4.36 (1H), 4.65 (2H), 7.35 (1H), 7.40 (2H), 7.64 (1H), 7.70 (2H), 8.21 (1H), 8.42 (1H).

25

Example 182: 2-({1-[2-fluoro-4-(trifluoromethyl)benzoyl]azetidin-3-yl}methyl)-N-(2-methoxyethyl)-6-methyl-2H-indazol-5-carboxamide

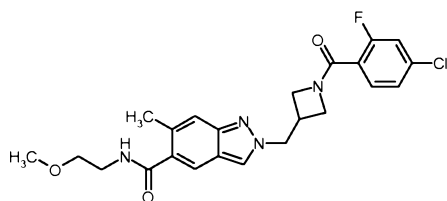


Analogously to Example 55, 11 mg of the title compound was obtained from 43 mg of the compound prepared in Example 178e and 32 mg of 2-fluoro-4-(trifluoromethyl)benzoyl chloride.

¹H-NMR (300 MHz, DMSO-d₆): δ = 2.33 (3H), 3.20 (1H), 3.24 (3H), 3.35 (2H), 3.42 (2H), 3.86- 3.95 (2H), 4.02-4.16 (2H), 4.65 (2H), 7.34 (1H), 7.61-7.69 (3H), 7.79 (1H), 8.21 (1H), 8.41 (1H).

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Example 183: 2-{{1-(4-chloro-2-fluorobenzoyl)azetidin-3-yl}methyl}-N-(2-methoxyethyl)-6-methyl-2H-indazol-5-carboxamide

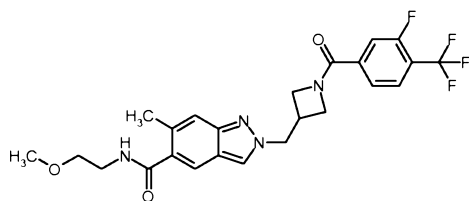


Analogously to Example 55, from 70 mg of the compound prepared in Example 178e and 44 mg of 4-chloro-2-fluorobenzoyl chloride, a material still contaminated after HPLC purification was obtained, which was further purified by additional preparative thick layer chromatography with ethyl acetate / methanol in the ratio 9:1 as mobile phase. This yielded 12 mg of the title compound.

¹H-NMR (300 MHz, DMSO-d₆): δ = 2.34 (3H), 3.19 (1H), 3.25 (3H), 3.34 (2H), 3.42 (2H), 3.84-3.93 (2H), 4.02-4.10 (2H), 4.64 (2H), 7.32-7.36 (2H), 7.46 (1H), 7.53 (1H), 7.63 (1H), 8.22 (1H), 8.41 (1H).

20

Example 184: 2-({1-[3-fluoro-4-(trifluoromethyl)benzoyl]azetidin-3-yl}methyl)-N-(2-methoxyethyl)-6-methyl-2H-indazol-5-carboxamide

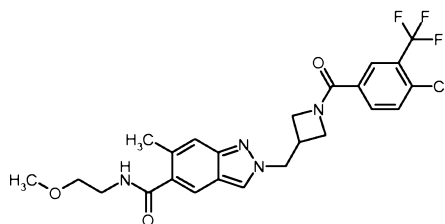


25

Analogously to Example 55, 32 mg of the title compound was obtained from 70 mg of the compound prepared in Example 178e and 52 mg of 3-fluoro-4-(trifluoromethyl)benzoyl chloride.

¹H-NMR (300 MHz, DMSO-d₆): δ = 2.34 (3H), 3.20 (1H), 3.24 (3H), 3.30-3.38 (2H), 3.42 (2H), 3.90 (1H), 4.10 (1H), 4.19 (1H), 4.38 (1H), 4.66 (2H), 7.34 (1H), 7.57 (1H), 7.60-7.67 (2H), 7.85 (1H), 8.21 (1H), 8.41 (1H).

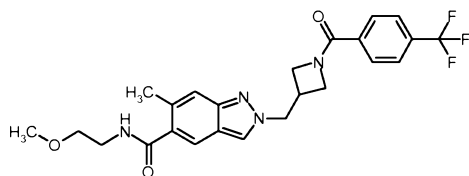
Example 185: 2-({1-[4-chloro-3-(trifluoromethyl)benzoyl]azetidin-3-yl}methyl)-N-(2-methoxyethyl)-6-methyl-2H-indazol-5-carboxamide



Analogously to Example 55, 30 mg of the title compound was obtained from 70 mg of the compound prepared in Example 178e and 55 mg of 4-chloro-3-(trifluoromethyl)benzoyl chloride.

¹H-NMR (300 MHz, DMSO-d₆): δ = 2.34 (3H), 3.19 (1H), 3.24 (3H), 3.34 (2H), 3.42 (2H), 3.89 (1H), 4.10 (1H), 4.20 (1H), 4.35-4.43 (1H), 4.65 (2H), 7.33 (1H), 7.64 (1H), 7.78 (1H), 7.85 (1H), 7.93 (1H), 8.21 (1H), 8.40 (1H).

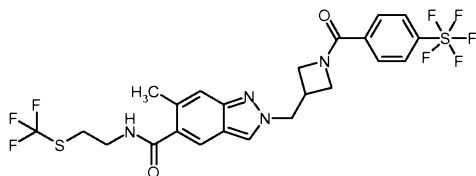
Example 186: N-(2-methoxyethyl)-6-methyl-2-({1-[4-(trifluoromethyl)benzoyl]azetidin-3-yl}methyl)-2H-indazol-5-carboxamide



Analogously to Example 55, 31 mg of the title compound was obtained from 70 mg of the compound prepared in Example 178e and 47 mg of 4-(trifluoromethyl)benzoyl chloride.

¹H-NMR (300 MHz, DMSO-d₆): δ = 2.34 (3H), 3.20 (1H), 3.24 (3H), 3.35 (2H), 3.42 (2H), 3.90 (1H), 4.06-4.21 (2H), 4.35 (1H), 4.66 (2H), 7.34 (1H), 7.63 (1H), 7.73-7.82 (4H), 8.21 (1H), 8.41 (1H).

Example 187: 6-methyl-2-({1-[4-(pentafluoro-λ⁶-sulphanyl)benzoyl]azetidin-3-yl}methyl)-N-{2-[(trifluoromethyl)sulphanyl]ethyl}-2H-indazol-5-carboxamide

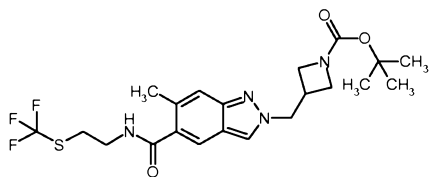


Analogously to Example 1, 35 mg of the title compound was obtained from 170 mg of the compound prepared in Example 187b and 103 mg of 4-(pentafluoro- λ^6 -sulphanyl)benzoic acid.

$^1\text{H-NMR}$ (300 MHz, DMSO- d_6): δ = 2.36 (3H), 3.12-3.23 (3H), 3.49 (2H), 3.91 (1H), 4.06-4.21 (2H), 4.36 (1H), 4.66 (2H), 7.36 (1H), 7.69 (1H), 7.76 (2H), 7.95 (2H), 8.44 (1H), 8.46 (1H).

The starting material was prepared as follows:

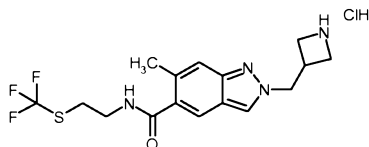
Example 187a: Tert-butyl 3-{{6-methyl-5-(N-{2-[(trifluoromethyl)sulphanyl]ethyl} carbamoyl)-2H-indazol-2-yl}methyl}azetidin-1-carboxylate



Analogously to Example 1, 998 mg of the title compound was obtained from 800 mg of the acid prepared in Example 178c and 336 mg of 2-[(trifluoromethyl)sulphanyl]ethylamine.

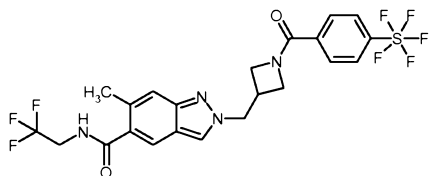
$^1\text{H-NMR}$ (300 MHz, DMSO- d_6): δ = 1.32 (9H), 2.36 (3H), 3.06 (1H), 3.13-3.21 (2H), 3.49 (2H), 3.67 (2H), 3.84 (2H), 4.59 (2H), 7.37 (1H), 7.70 (1H), 8.44 (1H), 8.47 (1H).

Example 187b: 2-(azetidin-3-ylmethyl)-6-methyl-N-{2-[(trifluoromethyl)sulphanyl]ethyl}-2H-indazol-5-carboxamide hydrochloride



Analogously to Example 1a), from 395 mg of the amide prepared in Example 187a), 402 mg of the title compound was obtained, which was reacted without further purification.

Example 188: 6-methyl-2-({1-[4-(pentafluoro- λ^6 -sulphanyl)benzoyl]azetidin-3-yl}methyl)-N-(2,2,2-trifluoroethyl)-2H-indazol-5-carboxamide



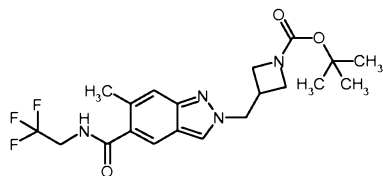
Analogously to Example 1, 25 mg of the title compound was obtained from 136 mg of the compound prepared in Example 188b and 93 mg of 4-(pentafluoro- λ^6 -sulphanyl)benzoic acid.

$^1\text{H-NMR}$ (300 MHz, DMSO- d_6): δ = 2.34 (3H), 3.20 (1H), 3.91 (1H), 3.95-4.21 (4H), 4.36 (1H), 4.67 (2H), 7.38 (1H), 7.71 (1H), 7.76 (2H), 7.95 (2H), 8.45 (1H), 8.86 (1H).

5

The starting material was prepared as follows:

Example 188a: Tert-butyl 3-({6-methyl-5-[N-(2,2,2-trifluoroethyl)carbamoyl]-2H-indazol-2-yl} methyl)azetidin-1-carboxylate



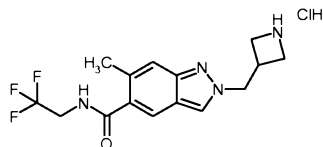
10

Analogously to Example 1, 550 mg of the title compound was obtained from 560 mg of the acid prepared in Example 178c and 160 mg of 2,2,2-trifluoroethylamine.

$^1\text{H-NMR}$ (300 MHz, DMSO- d_6): δ = 1.32 (9H), 2.34 (3H), 3.06 (1H), 3.67 (2H), 3.84 (2H), 3.93-4.10 (2H), 4.60 (2H), 7.40 (1H), 7.71 (1H), 8.46 (1H), 8.88 (1H).

15

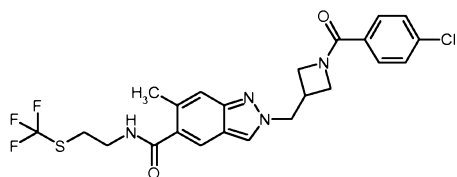
Example 188b: 2-(azetidin-3-ylmethyl)-6-methyl-N-(2,2,2-trifluoroethyl)-2H-indazol-5-carboxamide hydrochloride



Analogously to Example 1a, from 550 mg of the amide prepared in Example 188a, 530 mg of the title compound was obtained, which was reacted without further purification.

20

Example 189: 2-{[1-(4-chlorobenzoyl)azetidin-3-yl]methyl}-6-methyl-N-{2-[(trifluoromethyl) sulphanyl]ethyl}-2H-indazol-5-carboxamide

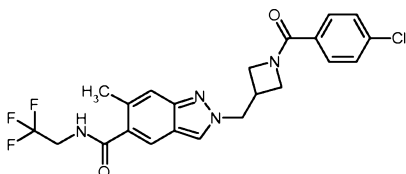


Analogously to Example 55, 45 mg of the title compound was obtained from 170 mg of the compound prepared in Example 187b and 80 mg of 4-chlorobenzoyl chloride.

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¹H-NMR (300 MHz, DMSO-d₆): δ = 2.39 (3H), 3.17-3.27 (3H), 3.52 (2H), 3.90 (1H), 4.10 (1H), 4.19 (1H), 4.37 (1H), 4.68 (2H), 7.39 (1H), 7.50 (2H), 7.61 (2H), 7.72 (1H), 8.47 (1H), 8.49 (1H).

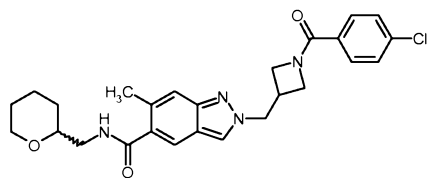
- 5 **Example 190:** 2-{[1-(4-chlorobenzoyl)azetidin-3-yl]methyl}-6-methyl-N-(2,2,2-trifluoroethyl)-2H-indazol-5-carboxamide



Analogously to Example 55, 60 mg of the title compound was obtained from 136 mg of the compound prepared in Example 188b and 72 mg of 4-chlorobenzoyl chloride.

- 10 ¹H-NMR (300 MHz, DMSO-d₆): δ = 2.34 (3H), 3.20 (1H), 3.87 (1H), 3.94-4.11 (3H), 4.16 (1H), 4.35 (1H), 4.66 (2H), 7.39 (1H), 7.48 (2H), 7.59 (2H), 7.71 (1H), 8.46 (1H), 8.89 (1H).

Example 191: (+/-)-2-{[1-(4-chlorobenzoyl)azetidin-3-yl]methyl}-6-methyl-N-(3,4,5,6-tetrahydro-2H-pyran-2-ylmethyl)-2H-indazol-5-carboxamide



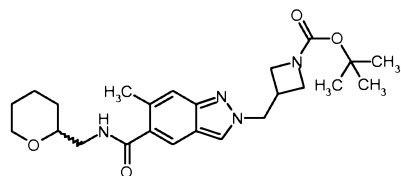
15

Analogously to Example 55, 49 mg of the title compound was obtained from 120 mg of the compound prepared in Example 191b and 61 mg of 4-chlorobenzoyl chloride.

- ¹H-NMR (300 MHz, DMSO-d₆): δ = 1.08-1.23 (1H), 1.36-1.49 (3H), 1.62 (1H), 1.72-1.80 (1H), 2.34 (3H), 3.10-3.43 (5H), 3.80-3.92 (2H), 4.07 (1H), 4.16 (1H), 4.34 (1H), 4.65 (2H), 7.34 (1H), 7.47 (2H), 7.59 (2H), 7.63 (1H), 8.16 (1H), 8.40 (1H).
- 20

The starting material was prepared as follows:

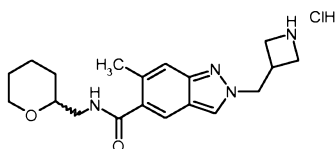
- Example 191a:** (+/-)-tert-butyl 3-({6-methyl-5-[N-(3,4,5,6-tetrahydro-2H-pyran-2-ylmethyl)-carbamoyl]-2H-indazol-2-yl}methyl)azetidin-1-carboxylate
- 25



Analogously to Example 1, 140 mg of the title compound was obtained from 300 mg of the acid prepared in Example 178c and 105 mg of 3,4,5,6-tetrahydro-2H-pyran-2-ylmethylamine.

¹H-NMR (300 MHz, DMSO-d₆): δ = 1.07-1.24 (1H), 1.27-1.49 (12H), 1.62 (1H), 1.76 (1H), 2.33 (3H), 3.06 (1H), 3.20 (2H), 3.29-3.45 (2H), 3.67 (2H), 3.78-3.90 (3H), 4.59 (2H), 7.35 (1H), 7.63 (1H), 8.16 (1H), 8.40 (1H).

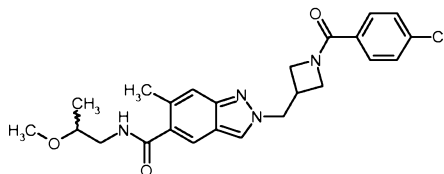
- 5 **Example 191b:** (+/-)-2-(azetidin-3-ylmethyl)-6-methyl-N-(3,4,5,6-tetrahydro-2H-pyran-2-ylmethyl)-2H-indazol-5-carboxamide hydrochloride



Analogously to Example 1a, from 140 mg of the amide prepared in Example 191a, 132 mg of the title compound was obtained, which was reacted without further purification.

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- Example 192:** (+/-)-2-([1-(4-chlorobenzoyl)azetidin-3-yl]methyl)-N-(2-methoxypropyl)-6-methyl-2H-indazol-5-carboxamide

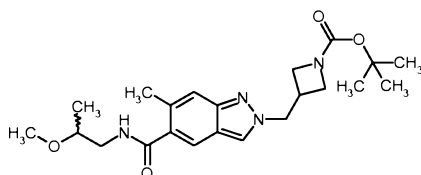


- 15 Analogously to Example 55, 89 mg of the title compound was obtained from 151 mg of the compound prepared in Example 192b and 82 mg of 4-chlorobenzoyl chloride.

¹H-NMR (300 MHz, DMSO-d₆): δ = 1.08 (3H), 2.34 (3H), 3.13-3.32 (6H), 3.43 (1H), 3.87 (1H), 4.07 (1H), 4.16 (1H), 4.34 (1H), 4.65 (2H), 7.35 (1H), 7.48 (2H), 7.59 (2H), 7.63 (1H), 8.18 (1H), 8.41 (1H).

- 20 The starting material was prepared as follows:

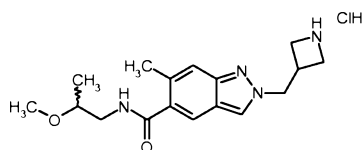
- Example 192a:** (+/-)-tert-butyl 3-({5-[N-(2-methoxypropyl)carbamoyl]-6-methyl-2H-indazol-2-yl}methyl)azetidin-1-carboxylate



- 25 Analogously to Example 1, 358 mg of the title compound was obtained from 300 mg of the acid prepared in Example 178c and 77 mg of 2-methoxypropan-1-amine.

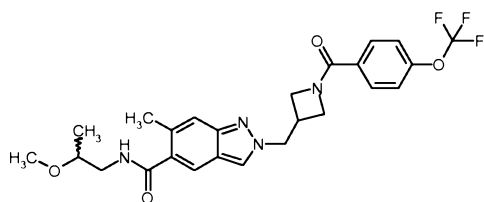
¹H-NMR (300 MHz, DMSO-d₆): δ = 1.08 (3H), 1.32 (9H), 2.34 (3H), 3.06 (1H), 3.13-3.31 (5H), 3.43 (1H), 3.67 (2H), 3.84 (2H), 4.59 (2H), 7.35 (1H), 7.64 (1H), 8.18 (1H), 8.40 (1H).

Example 192b: (+/-)-2-(azetidin-3-ylmethyl)-N-(2-methoxypropyl)-6-methyl-2H-indazol-5-carboxamide hydrochloride



5 Analogously to Example 1a), from 358 mg of the amide prepared in Example 192a), 319 mg of the title compound was obtained, which was reacted without further purification.

Example 193: (+/-)-N-(2-methoxypropyl)-6-methyl-2-({1-[4-(trifluoromethoxy)benzoyl]-azetidin-3-yl} methyl)-2H-indazol-5-carboxamide

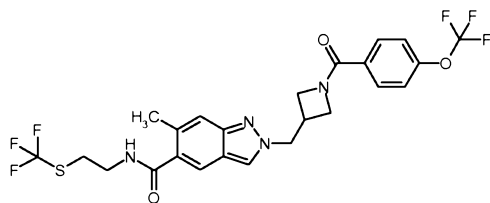


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Analogously to Example 55, 87 mg of the title compound was obtained from 151 mg of the compound prepared in Example 192b and 106 mg of 4-(trifluoromethoxy)benzoyl chloride.

¹H-NMR (300 MHz, DMSO-d₆): δ = 1.08 (3H), 2.34 (3H), 3.13-3.31 (6H), 3.43 (1H), 3.88 (1H), 4.08 (1H), 4.17 (1H), 4.36 (1H), 4.65 (2H), 7.35 (1H), 7.40 (2H), 7.64 (1H), 7.70 (2H),
 15 8.18 (1H), 8.41 (1H).

Example 194: 6-methyl-2-({1-[4-(trifluoromethoxy)benzoyl]azetidin-3-yl} methyl)-N-{2-[(trifluoromethyl)sulphonyl]ethyl}-2H-indazol-5-carboxamide



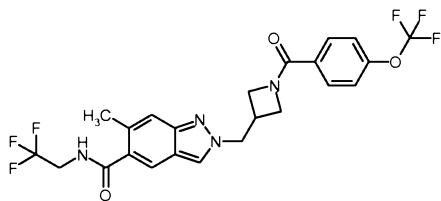
20

Analogously to Example 55, 87 mg of the title compound was obtained from 173 mg of the compound prepared in Example 187b and 105 mg of 4-(trifluoromethoxy)benzoyl chloride.

¹H-NMR (300 MHz, DMSO-d₆): δ = 2.36 (3H), 3.11-3.24 (3H), 3.49 (2H), 3.89 (1H), 4.09 (1H), 4.17 (1H), 4.36 (1H), 4.66 (2H), 7.36 (1H), 7.40 (2H), 7.66-7.74 (3H), 8.44 (1H), 8.46 (1H).

25

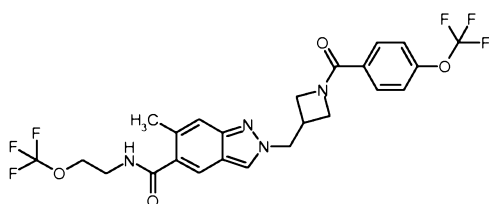
Example 195: 6-methyl-N-(2,2,2-trifluoroethyl)-2-({1-[4-(trifluoromethoxy)benzoyl]azetidin-3-yl} methyl)-2H-indazol-5-carboxamide



Analogously to Example 55, 70 mg of the title compound was obtained from 170 mg of the compound prepared in Example 188b and 116 mg of 4-(trifluoromethoxy)benzoyl chloride.

¹H-NMR (300 MHz, DMSO-d₆): δ = 2.35 (3H), 3.21 (1H), 3.89 (1H), 3.95-4.13 (3H), 4.18 (1H), 4.36 (1H), 4.67 (2H), 7.40 (3H), 7.66-7.75 (3H), 8.45 (1H), 8.86 (1H).

Example 196: 6-methyl-2-({1-[4-(trifluoromethoxy)benzoyl]azetidin-3-yl}methyl)-N-[2-(trifluoromethoxy)ethyl]-2H-indazol-5-carboxamide

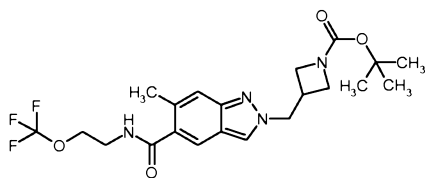


Analogously to Example 55, 22 mg of the title compound was obtained from 179 mg of the compound prepared in Example 196b and 113 mg of 4-(trifluoromethoxy)benzoyl chloride.

¹H-NMR (300 MHz, DMSO-d₆): δ = 2.34 (3H), 3.20 (1H), 3.50 (2H), 3.89 (1H), 4.08 (1H), 4.14-4.21 (3H), 4.36 (1H), 4.66 (2H), 7.36 (1H), 7.40 (2H), 7.66 (1H), 7.70 (2H), 8.44 (1H), 8.46 (1H).

The starting material was prepared as follows:

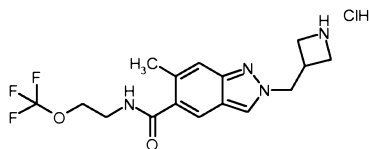
Example 196a: Tert-butyl 3-[(6-methyl-5-{N-[2-(trifluoromethoxy)ethyl]carbamoyl}-2H-indazol-2-yl)methyl]azetidin-1-carboxylate



Analogously to Example 1, 417 mg of the title compound was obtained from 300 mg of the acid prepared in Example 178c and 144 mg of 2-(trifluoromethoxy)ethylamine hydrochloride.

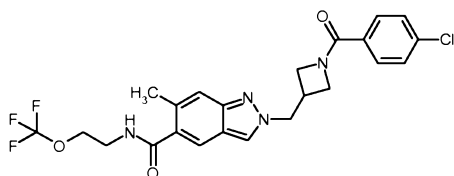
¹H-NMR (300 MHz, DMSO-d₆): δ = 1.32 (9H), 2.34 (3H), 3.06 (1H), 3.50 (2H), 3.68 (2H), 3.84 (2H), 4.16 (2H), 4.59 (2H), 7.37 (1H), 7.66 (1H), 8.44 (1H), 8.46 (1H).

Example 196b: 2-(azetidin-3-ylmethyl)-6-methyl-N-[2-(trifluoromethoxy)ethyl]-2H-indazol-5-carboxamide hydrochloride



Analogously to Example 1a, from 417 mg of the amide prepared in Example 196a, 369 mg of the title compound was obtained, which was reacted without further purification.

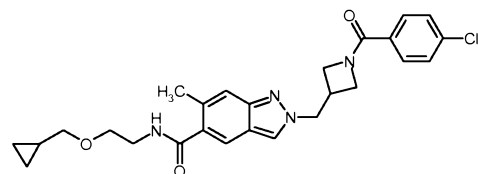
- 5 **Example 197:** 2- {[1-(4-chlorobenzoyl)azetidin-3-yl]methyl} -6-methyl-N-[2-(trifluoromethoxy)ethyl]-2H-indazol-5-carboxamide



Analogously to Example 55, 41 mg of the title compound was obtained from 179 mg of the compound prepared in Example 196b and 88 mg of 4-chlorobenzoyl chloride.

- 10 ¹H-NMR (300 MHz, DMSO-d₆): δ = 2.34 (3H), 3.19 (1H), 3.50 (2H), 3.87 (1H), 4.07 (1H), 4.13-4.21 (3H), 4.34 (1H), 4.65 (2H), 7.36 (1H), 7.48 (2H), 7.59 (2H), 7.66 (1H), 8.44 (1H), 8.46 (1H).

- 15 **Example 198:** 2- {[1-(4-chlorobenzoyl)azetidin-3-yl]methyl} -N-[2-(cyclopropylmethoxy)ethyl]-6-methyl-2H-indazol-5-carboxamide

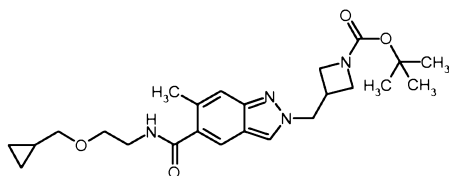


Analogously to Example 55, 107 mg of the title compound was obtained from 214 mg of the compound prepared in Example 198b and 109 mg of 4-chlorobenzoyl chloride.

- 20 ¹H-NMR (300 MHz, DMSO-d₆): δ = 0.14 (2H), 0.42 (2H), 0.97 (1H), 2.34 (3H), 3.12-3.26 (3H), 3.34 (2H), 3.47 (2H), 3.87 (1H), 4.07 (1H), 4.16 (1H), 4.34 (1H), 4.65 (2H), 7.35 (1H), 7.48 (2H), 7.59 (2H), 7.63 (1H), 8.21 (1H), 8.42 (1H).

The starting material was prepared as follows:

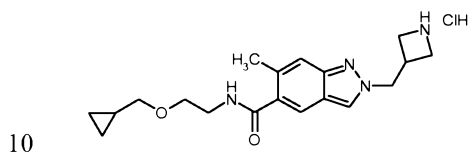
- 25 **Example 198a:** Tert-butyl 3-[(5-{N-[2-(cyclopropylmethoxy)ethyl]carbamoyl}-6-methyl-2H-indazol-2-yl)methyl]azetidin-1-carboxylate



Analogously to Example 1, 247 mg of the title compound was obtained from 245 mg of the acid prepared in Example 178c and 82 mg of 2-(cyclopropylmethoxy)ethylamine hydrochloride.

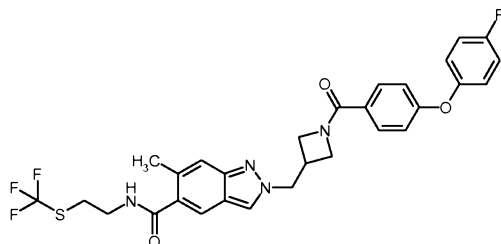
¹H-NMR (300 MHz, DMSO-d₆): δ = 0.14 (2H), 0.43 (2H), 0.97 (1H), 1.32 (9H), 2.35 (3H), 3.06 (1H), 3.23 (2H), 3.34 (2H), 3.48 (2H), 3.67 (2H), 3.85 (2H), 4.59 (2H), 7.35 (1H), 7.64 (1H), 8.18 (1H), 8.41 (1H).

Example 198b: 2-(azetidin-3-ylmethyl)-N-[2-(cyclopropylmethoxy)ethyl]-6-methyl-2H-indazol-5-carboxamide hydrochloride



Analogously to Example 1a, from 247 mg of the amide prepared in Example 198a, 214 mg of the title compound was obtained, which was reacted without further purification.

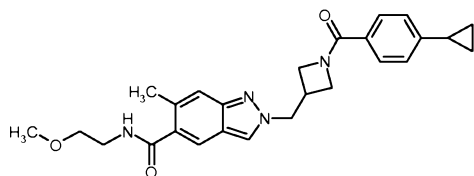
Example 199: 2-({1-[4-(4-fluorophenoxy)benzoyl]azetidin-3-yl}methyl)-6-methyl-N-{2-[(trifluoromethyl)sulphonyl]ethyl}-2H-indazol-5-carboxamide



Analogously to Example 1, 56 mg of the title compound was obtained from 173 mg of the compound prepared in Example 187b and 98 mg of 4-(4-fluorophenoxy)benzoic acid.

¹H-NMR (300 MHz, DMSO-d₆): δ = 2.38 (3H), 3.16-3.27 (3H), 3.52 (2H), 3.90 (1H), 4.08 (1H), 4.19 (1H), 4.38 (1H), 4.68 (2H), 6.97 (2H), 7.14 (2H), 7.27 (2H), 7.39 (1H), 7.62 (2H), 7.72 (1H), 8.47 (1H), 8.49 (1H).

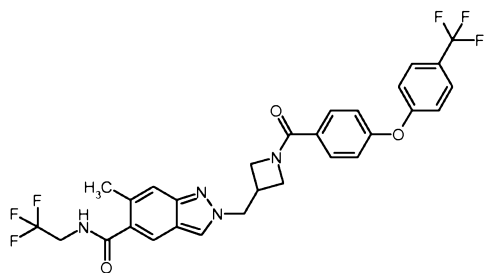
Example 200: 2-{[1-(4-cyclopropylbenzoyl)azetidin-3-yl]methyl}-N-(2-methoxyethyl)-6-methyl-2H-indazol-5-carboxamide



Analogously to Example 1, 86 mg of the title compound was obtained from 168 mg of the compound prepared in Example 178e and 80 mg of 4-cyclopropylbenzoic acid.

¹H-NMR (300 MHz, DMSO-d₆): δ = 0.71 (2H), 0.99 (2H), 1.95 (1H), 2.37 (3H), 3.21 (1H), 3.27 (3H), 3.37 (2H), 3.45 (2H), 3.88 (1H), 4.07 (1H), 4.17 (1H), 4.35 (1H), 4.67 (2H), 7.12 (2H), 7.38 (1H), 7.47 (2H), 7.66 (1H), 8.22 (1H), 8.44 (1H).

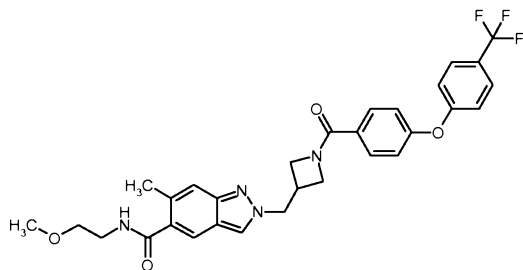
Example 201: 6-methyl-N-(2,2,2-trifluoroethyl)-2-[(1-{4-[4-(trifluoromethyl)phenoxy]benzoyl}azetidin-3-yl)methyl]-2H-indazol-5-carboxamide



Analogously to Example 1, 71 mg of the title compound was obtained from 180 mg of the compound prepared in Example 188b and 95 mg of 4-[4-(trifluoromethyl)phenoxy]benzoic acid.

¹H-NMR (300 MHz, DMSO-d₆): δ = 2.34 (3H), 3.21 (1H), 3.88 (1H), 3.95-4.13 (3H), 4.19 (1H), 4.37 (1H), 4.67 (2H), 7.11 (2H), 7.19 (2H), 7.39 (1H), 7.65 (2H), 7.69-7.79 (3H), 8.47 (1H), 8.88 (1H).

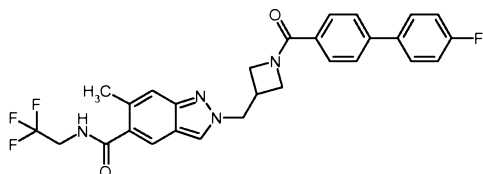
Example 202: N-(2-methoxyethyl)-6-methyl-2-[(1-{4-[4-(trifluoromethyl)phenoxy]benzoyl}azetidin-3-yl)methyl]-2H-indazol-5-carboxamide



Analogously to Example 1, 108 mg of the title compound was obtained from 180 mg of the compound prepared in Example 178e and 102 mg of 4-[4-(trifluoromethyl)phenoxy]benzoic acid.

¹H-NMR (300 MHz, DMSO-d₆): δ = 2.34 (3H), 3.14-3.26 (4H), 3.34 (2H), 3.42 (2H), 3.88 (1H), 4.07 (1H), 4.19 (1H), 4.37 (1H), 4.66 (2H), 7.11 (2H), 7.19 (2H), 7.35 (1H), 7.61-7.68 (3H), 7.75 (2H), 8.21 (1H), 8.42 (1H).

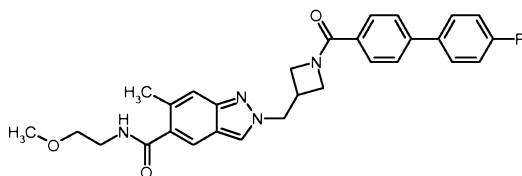
- 5 **Example 203:** 2-(1-[(4'-fluorobiphenyl-4-yl)carbonyl]azetidin-3-yl)methyl)-6-methyl-N-(2,2,2-trifluoroethyl)-2H-indazol-5-carboxamide



Analogously to Example 1, 104 mg of the title compound was obtained from 180 mg of the compound prepared in Example 188b and 73 mg of 4'-fluorobiphenyl-4-carboxylic acid.

- 10 ¹H-NMR (300 MHz, DMSO-d₆): δ = 2.34 (3H), 3.22 (1H), 3.90 (1H), 3.95-4.14 (3H), 4.21 (1H), 4.40 (1H), 4.68 (2H), 7.28 (2H), 7.40 (1H), 7.60-7.77 (7H), 8.48 (1H), 8.89 (1H).

Example 204: 2-(1-[(4'-fluorobiphenyl-4-yl)carbonyl]azetidin-3-yl)methyl)-N-(2-methoxyethyl)-6-methyl-2H-indazol-5-carboxamide

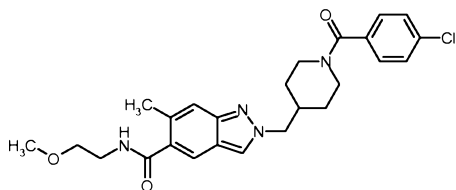


15

Analogously to Example 1, 73 mg of the title compound was obtained from 180 mg of the compound prepared in Example 178e and 78 mg of 4'-fluorobiphenyl-4-carboxylic acid.

- ¹H-NMR (300 MHz, DMSO-d₆): δ = 2.34 (3H), 3.14-3.26 (4H), 3.34 (2H), 3.41 (2H), 3.89 (1H), 4.09 (1H), 4.21 (1H), 4.39 (1H), 4.66 (2H), 7.28 (2H), 7.35 (1H), 7.61-7.77 (7H), 8.21 (1H), 8.43 (1H).
- 20

Example 205: 2-{[1-(4-chlorobenzoyl)piperidin-4-yl]methyl}-N-(2-methoxyethyl)-6-methyl-2H-indazol-5-carboxamide



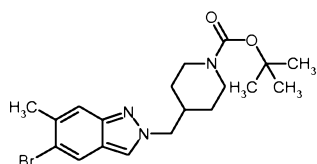
- 25 Analogously to Example 55, from 85 mg of the compound prepared in Example 205c and 45 mg of 4-chlorobenzoyl chloride, a material still contaminated after column chromatography was obtained which was further purified by additional preparative thick layer chromatography with

dichloromethane / methanol in the ratio 95:5 as mobile phase. Yield: 48 mg of the title compound.

¹H-NMR (300 MHz, DMSO-d₆): δ = 1.09-1.53 (4H), 2.24 (1H), 2.34 (3H), 2.71 (1H), 2.97 (1H), 3.24 (3H), 3.34 (2H), 3.38-3.54 (3H), 7.31-7.37 (3H), 7.46 (2H), 7.63 (1H), 8.21 (1H), 8.33 (H).

The starting material was prepared as follows:

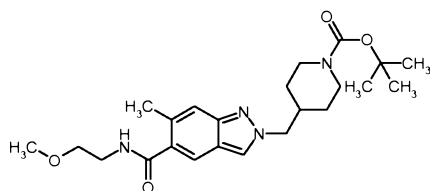
Example 205a: Tert-butyl 4-[(5-bromo-6-methyl-2H-indazol-2-yl)methyl]piperidin-1-carboxylate



Analogously to Example 1c, 2.99 g of the title compound was obtained from 5.7 g of 5-bromo-6-methyl-1H-indazole and 15.0 g of tert-butyl 4-[(tosyloxy)methyl]piperidin-1-carboxylate.

¹H-NMR (300 MHz, CDCl₃): δ = 1.14-1.30 (2H), 1.44 (9H), 1.53 (2H), 2.24 (1H), 2.50 (3H), 2.66 (2H), 4.11 (2H), 4.23 (2H), 7.55 (1H), 7.77 (1H), 7.87 (1H).

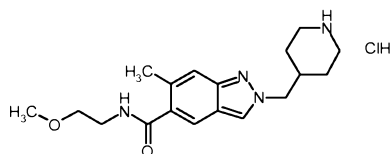
Example 205b: Tert-butyl 4-({5-[N-(2-methoxyethyl)carbamoyl]-6-methyl-2H-indazol-2-yl}-methyl)piperidin-1-carboxylate



Analogously to Example 1b, 3.56 g of the title compound was obtained from 600 mg of the bromide prepared in Example 205a and 331 mg of 2-methoxyethylamine after four runs and twofold purification by chromatography.

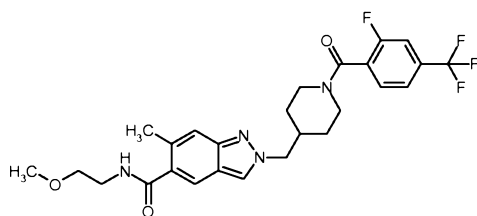
¹H-NMR (300 MHz, DMSO-d₆): δ = 0.96-1.15 (2H), 1.29-1.42 (10H), 2.03-2.18 (1H), 2.34 (3H), 2.51-2.73 (3H), 3.25 (3H), 3.31-3.45 (4H), 3.86 (2H), 4.26 (2H), 7.35 (1H), 7.63 (1H), 8.21 (1H), 8.32 (1H).

Example 205c: N-(2-methoxyethyl)-6-methyl-2-(4-piperidylmethyl)-2H-indazol-5-carboxamide hydrochloride



Analogously to Example 1a, from 100 mg of the amide prepared in Example 205b, 85 mg of the title compound was obtained, which was reacted without further purification.

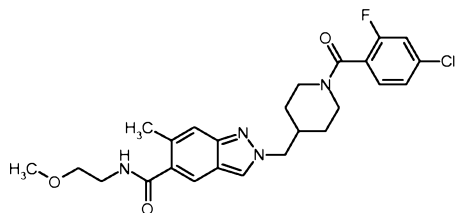
- 5 **Example 206:** 2-({1-[2-fluoro-4-(trifluoromethyl)benzoyl]piperidin-4-yl}methyl)-N-(2-methoxy-ethyl)-6-methyl-2H-indazol-5-carboxamide



Analogously to Example 55, from 85 mg of the compound prepared in Example 205c and 58 mg of 2-fluoro-4-(trifluoromethyl)benzoyl chloride, a material still contaminated after column chromatography was obtained which was further purified by additional preparative thick layer chromatography with dichloromethane / methanol in the ratio 95:5 as mobile phase. Yield: 40 mg of the title compound.

¹H-NMR (300 MHz, DMSO-d₆): δ = 1.03-1.28 (2H), 1.37 (1H), 1.53 (1H), 2.23 (1H), 2.34 (3H), 2.77 (1H), 3.00 (1H), 3.26-3.49 (11H), 4.30 (2H), 4.44 (1H), 7.35 (1H), 7.54-7.67 (3H), 7.78 (1H), 8.21 (1H), 8.34 (1H).

- Example 207:** 2-{[1-(4-chloro-2-fluorobenzoyl)piperidin-4-yl]methyl}-N-(2-methoxyethyl)-6-methyl-2H-indazol-5-carboxamide

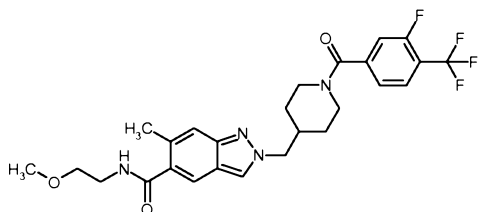


20 Analogously to Example 55, 68 mg of the title compound was obtained from 85 mg of the compound prepared in Example 205c and 49 mg of 4-chloro-2-fluorobenzoyl chloride.

¹H-NMR (300 MHz, DMSO-d₆): δ = 1.04-1.25 (2H), 1.37 (1H), 1.51 (1H), 2.23 (1H), 2.34 (3H), 2.73 (1H), 2.98 (1H), 3.21-3.48 (3H), 3.30-3.38 (3H), 3.42 (2H), 4.29 (2H), 4.42 (1H), 7.29-7.42 (3H), 7.51 (1H), 7.63 (1H), 8.21 (1H), 8.33 (1H).

25

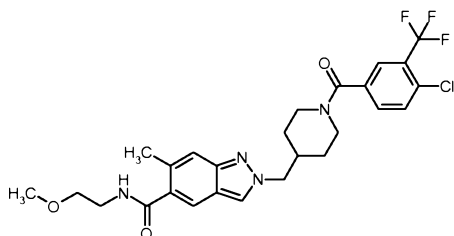
- Example 208:** 2-({1-[3-fluoro-4-(trifluoromethyl)benzoyl]piperidin-4-yl}methyl)-N-(2-methoxyethyl)-6-methyl-2H-indazol-5-carboxamide



Analogously to Example 55, 70 mg of the title compound was obtained from 85 mg of the compound prepared in Example 205c and 58 mg of 3-fluoro-4-(trifluoromethyl)benzoyl chloride.

- 5 ¹H-NMR (300 MHz, DMSO-d₆): δ = 1.13-1.27 (2H), 1.35 (1H), 1.51 (1H), 2.23 (1H), 2.34 (3H), 2.74 (1H), 2.98 (1H), 3.22-3.45 (8H), 4.29 (2H), 4.40 (1H), 7.32-7.38 (2H), 7.52 (1H), 7.63 (1H), 7.82 (1H), 8.21 (1H), 8.33 (1H).

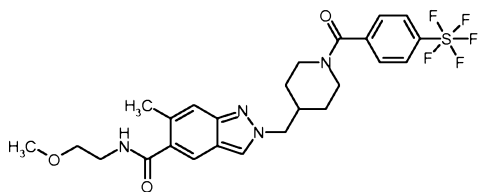
Example 209: 2-({1-[4-chloro-3-(trifluoromethyl)benzoyl]piperidin-4-yl}methyl)-N-(2-methoxyethyl)-6-methyl-2H-indazol-5-carboxamide



Analogously to Example 55, 92 mg of the title compound was obtained from 85 mg of the compound prepared in Example 205c and 62 mg of 4-chloro-3-(trifluoromethyl)benzoyl chloride.

- 15 ¹H-NMR (300 MHz, DMSO-d₆): δ = 1.14-1.28 (2H), 1.35 (1H), 1.44-1.53 (1H), 2.25 (1H), 2.34 (3H), 2.74 (1H), 3.01 (1H), 3.24 (3H), 3.34 (2H), 3.39-3.50 (3H), 4.29 (2H), 4.39 (1H), 7.35 (1H), 7.61-7.68 (2H), 7.74-7.80 (2H), 8.21 (1H), 8.33 (1H).

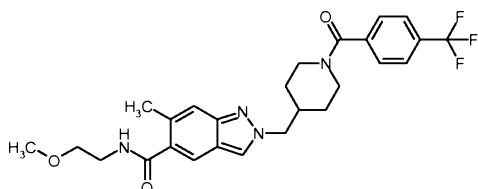
Example 210: N-(2-methoxyethyl)-6-methyl-2-({1-[4-(pentafluoro-λ⁶-sulphanyl)benzoyl]piperidin-4-yl}methyl)-2H-indazol-5-carboxamide



Analogously to Example 1, 126 mg of the title compound was obtained from 85 mg of the compound prepared in Example 205c and 58 mg of 4-(pentafluoro-λ⁶-sulphanyl)benzoic acid.

¹H-NMR (300 MHz, DMSO-d₆): δ = 1.12-1.27 (2H), 1.35 (1H), 1.51 (1H), 2.24 (1H), 2.34 (3H), 2.74 (1H), 2.99 (1H), 3.24 (3H), 3.34-3.46 (5H), 4.30 (2H), 4.41 (1H), 7.35 (1H), 7.55 (2H), 7.63 (1H), 7.94 (2H), 8.21 (1H), 8.33 (1H).

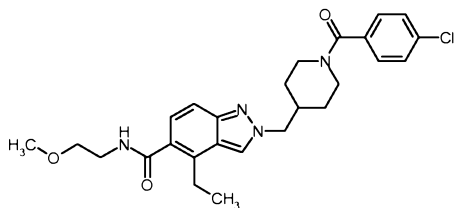
- 5 **Example 211:** N-(2-methoxyethyl)-6-methyl-2-({1-[4-(trifluoromethyl)benzoyl]piperidin-4-yl}-methyl)-2H-indazol-5-carboxamide



Analogously to Example 55, 69 mg of the title compound was obtained from 85 mg of the compound prepared in Example 205c and 53 mg of 4-(trifluoromethyl)benzoyl chloride.

- 10 ¹H-NMR (300 MHz, DMSO-d₆): δ = 1.10-1.26 (2H), 1.35 (1H), 1.51 (1H), 2.19-2.30 (1H), 2.34 (3H), 2.74 (1H), 2.98 (1H), 3.21-3.47 (8H), 4.30 (2H), 4.42 (1H), 7.35 (1H), 7.54 (2H), 7.63 (1H), 7.77 (2H), 8.21 (1H), 8.33 (1H).

- 15 **Example 212:** 2-({1-[4-chlorobenzoyl]piperidin-4-yl}methyl)-4-ethyl-N-(2-methoxyethyl)-2H-indazol-5-carboxamide

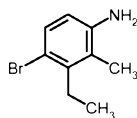


Analogously to Example 55, 61 mg of the title compound was obtained from 91 mg of the compound prepared in Example 212i and 46 mg of 4-chlorobenzoyl chloride.

- 20 ¹H-NMR (300 MHz, DMSO-d₆): δ = 1.14-1.28 (5H), 1.31-1.60 (2H), 2.27 (1H), 2.63-3.04 (4H), 3.24 (3H), 3.31-3.56 (5H), 4.31 (2H), 4.39 (1H), 7.10 (1H), 7.32-7.41 (3H), 7.46 (2H), 8.11 (1H), 8.50 (1H).

The starting material was prepared as follows:

- 25 **Example 212a:** 4-bromo-3-ethyl-2-methylaniline

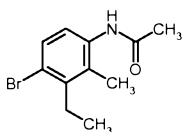


A suspension of 3 g of 3-ethyl-2-methylaniline hydrochloride in 200 ml ethyl acetate was washed twice with 30 ml portions of saturated sodium carbonate solution and twice with 20 ml

portions of saturated sodium chloride solution, dried over sodium sulphate and concentrated in vacuo after filtration. This yielded 2.69 g of ethyl-2-methylaniline, which was further reacted without purification.

To a solution of 2.36 g of the amine prepared above in 29 ml DMF, a solution of 3.1 g of N-bromosuccinimide in 14.5 ml DMF was added dropwise at 0°C and stirred for 30 minutes at 0°C. Then the reaction mixture was diluted with 400 ml ethyl acetate and washed once with 30 ml of a 10% aqueous sodium carbonate solution and once with 30 ml water. After drying over sodium sulphate and filtration, this was concentrated in vacuo. The crude product thus obtained (3.86 g) was used in the next step without purification.

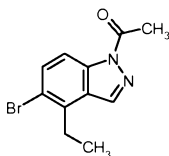
Example 212b: N-(4-bromo-3-ethyl-2-methylphenyl)acetamide



To a solution of 3.86 g of the bromide prepared in Example 212a in 48 ml pyridine, 2.04 ml of acetic anhydride was added dropwise at 0°C and stirred for 20 hours at 25°C. The reaction mixture was concentrated in vacuo and the crude product thus obtained was purified by column chromatography on silica gel with hexane / 0-100% ethyl acetate. In this manner, 3.73 g of the title compound was obtained.

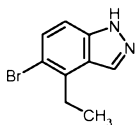
¹H-NMR (300 MHz, CDCl₃): δ = 1.13 (3H), 2.20 (3H), 2.25 (3H), 2.86 (2H), 6.91 (1H), 7.33 (1H), 7.40 (1H).

Example 212c: 1-(5-bromo-4-ethyl-1H-indazol-1-yl)ethan-1-one



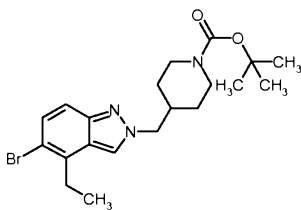
To a solution of 3.72 g of the acetamide prepared in Example 212b in 31.5 ml chloroform were added 4.1 ml of acetic anhydride and 2.85 g of potassium acetate, and 192 mg of 18-crown-6 and 3.4 g of isopentyl nitrite were then added dropwise. The reaction mixture was heated for 20 hours under reflux and after cooling diluted with 200 ml ethyl acetate. The organic phase was washed with 20 ml sodium carbonate solution and once with saturated sodium chloride solution. After drying over sodium sulphate and filtration, this was concentrated in vacuo and the crude product thus obtained purified by column chromatography on silica gel with hexane / 0-50% ethyl acetate. Yield: 3.78 g of the title compound.

¹H-NMR (300 MHz, DMSO-d₆): δ = 1.18 (3H), 2.68 (3H), 3.04 (2H), 7.73 (1H), 8.03 (1H), 8.64 (1H).

Example 212d: 5-bromo-4-ethyl-1H-indazole

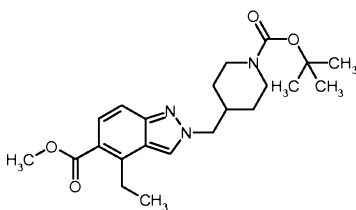
A mixture of 3.78 g of the compound prepared in Example 212c in 7.3 ml methanol and 26.3 ml of 37% hydrochloric acid was heated under reflux for 2 hours. This was then diluted with 400 ml ethyl acetate. The organic phase was washed three times with 50 ml portions of sodium hydrogen carbonate solution and once with 50 ml saturated sodium chloride solution, dried over sodium sulphate and concentrated in vacuo. The crude product thus obtained was purified by column chromatography on silica gel with hexane / 0-50% ethyl acetate. Yield: 2.97 g of the title compound.

¹H-NMR (300 MHz, DMSO-d₆): δ = 1.17 (3H), 2.98 (2H), 7.30 (1H), 7.41 (1H), 8.16 (1H), 13.17 (1H).

Example 212e: Tert-butyl 4-[(5-bromo-4-ethyl-2H-indazol-2-yl)methyl]piperidin-1-carboxylate

Analogously to Example 1c, 961 mg of the title compound was obtained from 2.97 g of the indazole prepared in Example 212d and 7.3 g of tert-butyl-4-[(tosyloxy)methyl]piperidin-1-carboxylate.

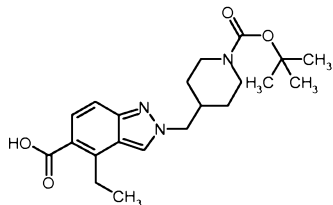
¹H-NMR (300 MHz, DMSO-d₆): δ = 1.01-1.13 (2H), 1.16 (3H), 1.34 (9H), 1.41 (2H), 2.12 (1H), 2.63 (2H), 2.90 (2H), 3.87 (2H), 4.27 (2H), 7.27 (1H), 7.35 (1H), 8.49 (1H).

Example 212f: Methyl 2-{[1-(tert-butoxycarbonyl)piperidin-4-yl]methyl}-4-ethyl-2H-indazol-5-carboxylate

Analogously to Example 1e, after two runs 571 mg of the title compound was obtained from 347 mg of the bromide prepared in Example 212e and 0.1 ml of methanol.

¹H-NMR (300 MHz, DMSO-d₆): δ = 1.02-1.15 (2H), 1.17-1.24 (3H), 1.34 (9H), 1.42 (2H), 2.14 (1H), 2.63 (2H), 3.17 (2H), 3.79 (3H), 3.88 (2H), 4.30 (2H), 7.43 (1H), 7.60 (1H), 8.68 (1H).

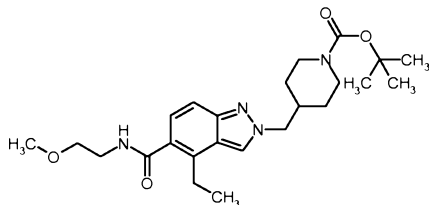
Example 212g: 2-{[1-(tert-butoxycarbonyl)piperidin-4-yl]methyl}-4-ethyl-2H-indazol-5-carboxylic acid



Analogously to Example 1d, 427 mg of the title compound was obtained from 371 mg of the ester in Example 212f.

¹H-NMR (300 MHz, DMSO-d₆): δ = 1.00-1.15 (2H), 1.20 (3H), 1.34 (9H), 1.42 (2H), 2.14 (1H), 2.64 (2H), 3.19 (2H), 3.88 (2H), 4.29 (2H), 7.39 (1H), 7.61 (1H), 8.63 (1H), 12.33 (1H).

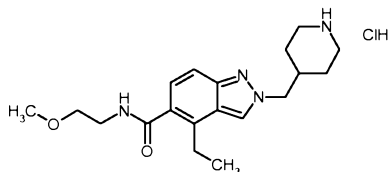
Example 212h: Tert-butyl 4-({4-ethyl-5-[N-(2-methoxyethyl)carbamoyl]-2H-indazol-2-yl}-methyl)piperidin-1-carboxylate



Analogously to Example 1, 215 mg of the title compound was obtained from 427 mg of the acid prepared in Example 212g and 83 mg of 2-methoxy-ethylamine.

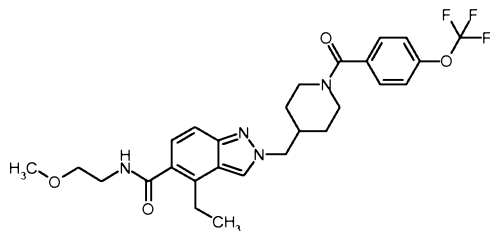
¹H-NMR (300 MHz, DMSO-d₆): δ = 0.98-1.14 (2H), 1.19 (3H), 1.30-1.47 (11H), 2.13 (1H), 2.65 (2H), 2.90 (2H), 3.24 (3H), 3.32-3.45 (4H), 3.87 (2H), 4.28 (2H), 7.10 (1H), 7.38 (1H), 8.12 (1H), 8.50 (1H).

Example 212i: 4-ethyl-N-(2-methoxyethyl)-2-(4-piperidylmethyl)-2H-indazol-5-carboxamide hydrochloride



Analogously to Example 1a, from 215 mg of the amide prepared in Example 212h, 258 mg of the title compound was obtained, which was reacted without further purification.

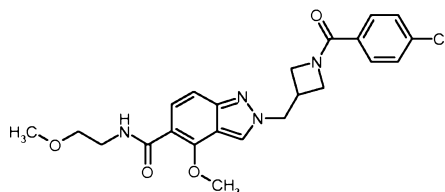
Example 213: 4-Ethyl-N-(2-methoxyethyl)-2-(1-[4-(trifluoromethoxy)benzoyl]piperidin-4-yl)methyl)-2H-indazol-5-carboxamide



Analogously to Example 55, 32 mg of the title compound was obtained from 91 mg of the compound prepared in Example 212i and 59 mg of 4-(trifluoromethoxy)benzoyl chloride.

¹H-NMR (300 MHz, DMSO-d₆): δ = 1.14-1.29 (5H), 1.31-1.61 (2H), 2.20-2.35 (1H), 2.66-3.06 (4H), 3.24 (3H), 3.30-3.56 (5H), 4.31 (2H), 4.41 (1H), 7.10 (1H), 7.34-7.43 (3H), 7.47 (2H), 8.11 (1H), 8.50 (1H).

Example 214: 2-([1-(4-chlorobenzoyl)azetidin-3-yl]methyl)-4-methoxy-N-(2-methoxyethyl)-2H-indazol-5-carboxamide

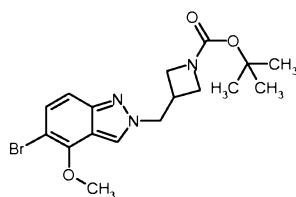


Analogously to Example 55, 691 mg of the title compound was obtained from 68 mg of the compound prepared in Example 214c and 37 mg of 4-chlorobenzoyl chloride.

¹H-NMR (300 MHz, DMSO-d₆): δ = 3.22 (1H), 3.27 (3H), 3.40-3.47 (4H), 3.92 (1H), 4.10 (1H), 4.16 (3H), 4.19 (1H), 4.38 (1H), 4.66 (2H), 7.21 (1H), 7.48 (2H), 7.55-7.67 (3H), 8.18 (1H), 8.87 (1H).

The starting material was prepared as follows:

Example 214a: Tert-butyl 3-[(5-bromo-4-methoxy-2H-indazol-2-yl)methyl]azetidin-1-carboxylate



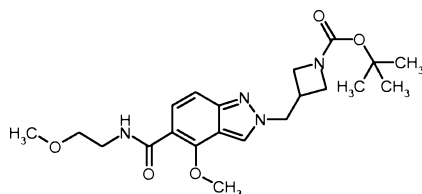
To a solution of 1.94 g of tert-butyl 3-[(tosyloxy)methyl]azetidin-1-carboxylate in 15.5 ml acetone were added 837 mg of lithium iodide and the reaction mixture was stirred for 16 hours at 35°C. After cooling, it was diluted with 200 ml ethyl acetate and the organic phase washed twice

with 30 ml portions of water and once with 20 ml saturated sodium chloride solution. After drying over sodium sulphate and filtration, this was concentrated in vacuo. In this manner, 1.6 g of tert-butyl-3-(iodomethyl)azetidin-1-carboxylate were obtained, which was further reacted without purification.

- 5 To a solution of 620 mg of 5-bromo-7-methoxy-1H-indazole in 24 ml DMF were added 1.11 g of potassium carbonate and the mixture stirred at 25°C for 30 minutes. Then 1.25 g of the iodide prepared above was added and the reaction mixture stirred for 3 hours at 60°C. After cooling, it was diluted with 200 ml 1:1 tert-butyl methyl ether/hexane, washed once each with 20 ml portions of water and saturated sodium chloride solution, dried over sodium sulphate and
10 concentrated in vacuo and the crude product thus obtained purified by column chromatography on silica gel with a hexane / ethyl acetate gradient. Yield: 263 mg of the title compound.

¹H-NMR (300 MHz, CDCl₃): δ = 1.43 (9H), 3.23 (1H), 3.78 (2H), 4.07 (2H), 4.10 (3H), 4.59 (2H), 7.28 (1H), 7.36 (1H), 8.03 (1H).

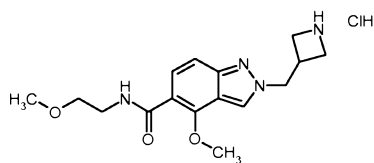
- 15 **Example 214b:** Tert-butyl 3-({4-methoxy-5-[N-(2-methoxyethyl)carbamoyl]-2H-indazol-2-yl} methyl)azetidin-1-carboxylate



- Analogously to Example 1b, a total of 193 mg of the title compound was obtained from 110 and 252 mg respectively of the compound prepared in Example 214a and 63 and 143 mg
20 respectively of 2-methoxyethylamine.

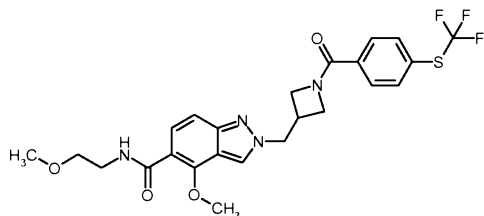
¹H-NMR (300 MHz, DMSO-d₆): δ = 1.32 (9H), 3.10 (1H), 3.27 (3H), 3.38-3.48 (4H), 3.72 (2H), 3.82-3.94 (2H), 4.17 (3H), 4.60 (2H), 7.21 (1H), 7.63 (1H), 8.18 (1H), 8.87 (1H).

- Example 214c:** 2-(azetidin-3-ylmethyl)-4-methoxy-N-(2-methoxyethyl)-2H-indazol-5-
25 carboxamide hydrochloride



Analogously to Example 1a, from 50 mg of the compound prepared in Example 214b, 42 mg of the title compound was obtained, which was further reacted without purification.

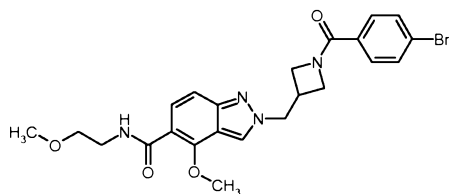
- 30 **Example 215:** 4-methoxy-N-(2-methoxyethyl)-2-[(1-{4-[(trifluoromethyl)sulphonyl]benzoyl} azetidin-3-yl)methyl]-2H-indazol-5-carboxamide



Analogously to Example 55, 56 mg of the title compound was obtained from 42 mg of the compound prepared in Example 214c and 32 mg of 4-[(trifluoromethyl)sulphonyl]benzoyl chloride.

- 5 ¹H-NMR (300 MHz, DMSO-d₆): δ = 3.21 (1H), 3.27 (3H), 3.38-3.49 (4H), 3.95 (1H), 4.12 (1H), 4.16 (3H), 4.21 (1H), 4.40 (1H), 4.67 (2H), 7.20 (1H), 7.63 (1H), 7.69 (2H), 7.76 (2H), 8.18 (1H), 8.87 (1H).

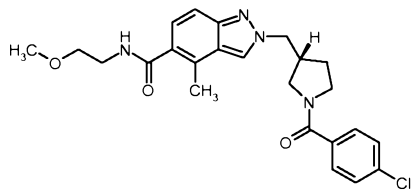
- Example 216:** 2-{[1-(4-bromobenzoyl)azetidin-3-yl]methyl}-4-methoxy-N-(2-methoxyethyl)-
10 2H-indazol-5-carboxamide



Analogously to Example 55, 48 mg of the title compound was obtained from 42 mg of the compound prepared in Example 214c and 29 mg of 4-bromobenzoyl chloride.

- 15 ¹H-NMR (300 MHz, DMSO-d₆): δ = 3.23 (1H), 3.26 (3H), 3.38-3.48 (4H), 3.92 (1H), 4.09 (1H), 4.16 (3H), 4.19 (1H), 4.38 (1H), 4.66 (2H), 7.20 (1H), 7.51 (2H), 7.58-7.68 (3H), 8.18 (1H), 8.86 (1H).

- Example 217:** 2-{[(R)-1-(4-chlorobenzoyl)pyrrolidin-3-yl]methyl}-N-(2-methoxyethyl)-4-methyl-2H-indazol-5-carboxamide

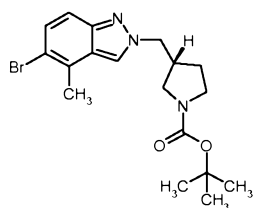


- 20 Analogously to Example 55, 50 mg of the title compound was obtained from 106 mg of the compound prepared in Example 217c and 58 mg of 4-chlorobenzoyl chloride.

- 25 ¹H-NMR (300 MHz, DMSO-d₆): δ = 1.57-1.73 (1H), 1.81-1.97 (1H), 2.47 / 2.51 (3H), 2.78-2.93 (1H), 3.25 (3H), 3.19-3.61 (8H), 4.39 / 4.51 (2H), 7.11-7.18 (1H), 7.33-7.43 (1H), 7.45 (2H), 7.50 (2H), 8.09-8.16 (1H), 8.47 / 8.55 (1H).

The starting material was prepared as follows:

Example 217a: (R)-tert-butyl-3-[(5-bromo-4-methyl-2H-indazol-2-yl)methyl]pyrrolidine-1-carboxylate



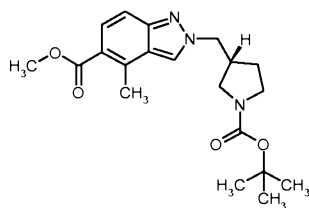
5

To a solution of 9.0 g of (R)-tert-butyl 3-(hydroxymethyl)pyrrolidin-1-carboxylate in 100 ml pyridine was added 12.8 g of p-toluenesulphonyl chloride at 0°C under nitrogen and stirred for 3 hours at 25°C. The reaction mixture was diluted with ethyl acetate and stirred for 30 minutes with sodium hydrogen carbonate. The phases were then separated and the organic phase washed with saturated sodium chloride solution, dried over sodium sulphate and concentrated in vacuo after filtration. The residue thus obtained was purified by column chromatography on silica gel with hexane / 0-100% ethyl acetate. Yield: 11.4 g of (R)-tert-butyl-3-[(tosyloxy)methyl]pyrrolidin-1-carboxylate.

Analogously to Example 1c, 1.97 g of the title compound was obtained from 4.53 g of 5-bromo-4-methyl-1H-indazole and 11.4 g of the (R)-tert-butyl-3-[(tosyloxy)methyl]pyrrolidin-1-carboxylate prepared above with addition of 7.9 g of tetrabutylammonium iodide.

¹H-NMR (300 MHz, DMSO-d₆): δ = 1.34 (9H), 1.50-1.66 (1H), 1.81 (1H), 2.48 (3H), 2.78 (1H), 3.01 (1H), 3.16 (1H), 3.25-3.37 (2H), 4.41 (2H), 7.29 (1H), 7.36 (1H), 8.51 (1H).

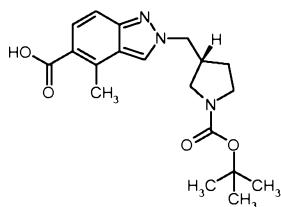
Example 217b: Methyl 2-{[(R)-1-(tert-butoxycarbonyl)pyrrolidin-3-yl]methyl}-4-methyl-2H-indazol-5-carboxylate



Analogously to Example 1c, after two runs 820 mg of the title compound was obtained from 563 mg of the bromide prepared in Example 217a and 0.17 ml of methanol.

¹H-NMR (300 MHz, DMSO-d₆): δ = 1.34 (9H), 1.58 (1H), 1.83 (1H), 2.73 (3H), 2.80 (1H), 3.03 (1H), 3.17 (1H), 3.25-3.37 (2H), 3.79 (3H), 4.37-4.49 (2H), 7.44 (1H), 7.64 (1H), 8.72 (1H).

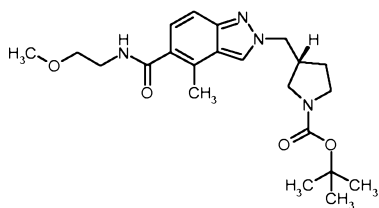
Example 217c: 2-{[(R)-1-(tert-butoxycarbonyl)pyrrolidin-3-yl]methyl}-4-methyl-2H-indazol-5-carboxylic acid



Analogously to Example 1d, 701 mg of the title compound was obtained from 620 mg of the ester prepared in Example 217b.

¹H-NMR (300 MHz, DMSO-d₆): δ = 1.34 (9H), 1.50-1.69 (1H), 1.82 (1H), 1.75-1.86 (1H),
 5 2.69-2.88 (4H), 3.03 (1H), 3.17 (1H), 3.24-3.38 (1H), 4.42 (2H), 7.40 (1H), 7.65 (1H), 8.68 (1H), 12.28 (1H).

Example 217d: (R)-tert-butyl 3-((5-[N-(2-methoxyethyl)carbamoyl]-4-methyl-2H-indazol-2-yl)methyl)pyrrolidin-1-carboxylate

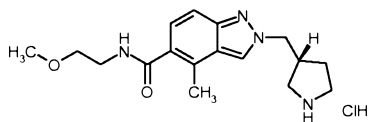


10

Analogously to Example 1, 376 mg of the title compound was obtained from 350 mg of the acid prepared in Example 217c and 73 mg of 2-methoxyethylamine.

¹H-NMR (300 MHz, DMSO-d₆): δ = 1.35 (9H), 1.57 (1H), 1.80 (1H), 2.50 (3H), 2.73-2.86 (1H), 3.01 (1H), 3.11-3.22 (1H), 3.25 (3H), 3.26-3.39 (3H), 3.39-3.46 (2H), 4.42 (2H), 7.15
 15 (1H), 7.39 (1H), 8.13 (1H), 8.52 (1H).

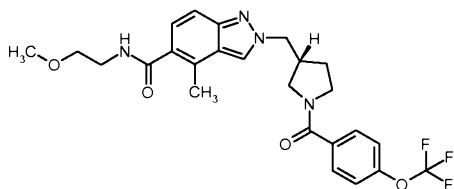
Example 217e: N-(2-methoxyethyl)-4-methyl-2-[(R)-pyrrolidin-3-ylmethyl]-2H-indazol-5-carboxamide hydrochloride



20

Analogously to Example 1a, from 376 mg of the amide prepared in Example 217d, 465 mg of the title compound was obtained, which was reacted without further purification.

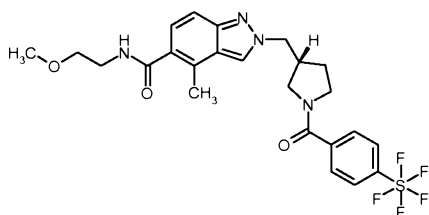
Example 218: N-(2-methoxyethyl)-4-methyl-2-((R)-1-[4-(trifluoromethoxy)benzoyl]-pyrrolidin-3-yl)methyl)-2H-indazol-5-carboxamide



Analogously to Example 55, 61 mg of the title compound was obtained from 106 mg of the compound prepared in Example 217e and 74 mg of 4-(trifluoromethoxy)benzoyl chloride.

¹H-NMR (300 MHz, DMSO-d₆): δ = 1.57-1.74 (1H), 1.81-1.97 (1H), 2.47 / 2.51 (3H), 2.77-2.94 (1H), 3.25-3.62 (11H), 4.40 / 4.51 (2H), 7.09-7.19 (1H), 7.31-7.44 (3H), 7.61 (2H), 8.08-8.16 (1H), 8.47 / 8.55 (1H).

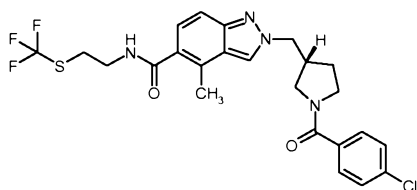
Example 219: N-(2-methoxyethyl)-4-methyl-2-((3R)-1-[4-(pentafluoro-λ⁶-sulphanyl)benzoyl]-pyrrolidin-3-yl)methyl)-2H-indazol-5-carboxamide



Analogously to Example 1, 29 mg of the title compound was obtained from 106 mg of the compound prepared in Example 217e and 75 mg of 4-(pentafluoro-λ⁶-sulphanyl)benzoic acid.

¹H-NMR (300 MHz, DMSO-d₆): δ = 1.57-1.76 (1H), 1.81-1.99 (1H), 2.50 (3H), 2.77-2.94 (1H), 3.16-3.62 (11H), 4.39 / 4.52 (2H), 7.09-7.19 (1H), 7.32-7.44 (1H), 7.68 (2H), 7.90-7.97 (2H), 8.10-8.17 (1H), 8.46 / 8.55 (1H).

Example 220: 2-[(R)-1-(4-chlorobenzoyl)pyrrolidin-3-yl)methyl]-4-methyl-N-{2-[(trifluoromethyl)sulphanyl]ethyl}-2H-indazol-5-carboxamide

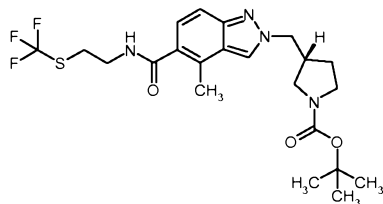


Analogously to Example 55, 29 mg of the title compound was obtained from 106 mg of the compound prepared in Example 220b and 48 mg of 4-chlorobenzoyl chloride.

¹H-NMR (300 MHz, DMSO-d₆): δ = 1.57-1.73 (1H), 1.81-1.96 (1H), 2.48 / 2.53 (3H), 2.79-2.93 (1H), 3.13-3.60 (8H), 4.40 / 4.51 (2H), 7.14-7.23 (1H), 7.33-7.53 (5H), 8.35-8.42 (1H), 8.49 / 8.58 (1H).

The starting material was prepared as follows:

Example 220a: (R)-tert-butyl 3-{{[4-methyl-5-(N-{2-[(trifluoromethyl)sulphanyl]ethyl}-carbamoyl)-2H-indazol-2-yl]methyl}pyrrolidin-1-carboxylate

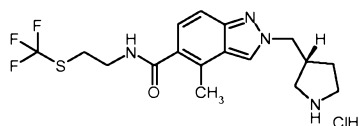


5 Analogously to Example 1, 245 mg of the title compound was obtained from 350 mg of the acid prepared in Example 217c and 141 mg of 2-[(trifluoromethyl)sulphanyl]ethylamine.

¹H-NMR (300 MHz, DMSO-d₆): δ = 1.35 (9H), 1.52-1.64 (1H), 1.81 (1H), 2.52 (3H), 2.71-2.96 (2H), 2.97-3.05 (12H), 3.18 (2H), 3.23-3.28 (1H), 3.51 (2H), 4.42 (2H), 7.19 (1H), 7.42 (1H), 8.39 (1H), 8.54 (1H).

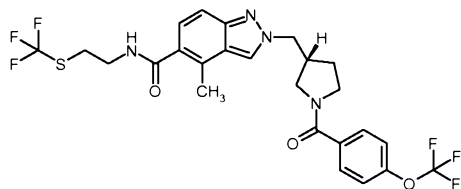
10

Example 220b: 4-methyl-2-[(R)-pyrrolidin-3-ylmethyl]-N-{2-[(trifluoromethyl)sulphanyl]ethyl}-2H-indazol-5-carboxamide hydrochloride



15 Analogously to Example 1a, from 245 mg of the amide prepared in Example 220a, 410 mg of the title compound was obtained, which was reacted without further purification.

Example 221: 4-methyl-2-({(R)-1-[4-(trifluoromethoxy)benzoyl]pyrrolidin-3-yl}methyl)-N-{2-[(trifluoromethyl)sulphanyl]ethyl}-2H-indazol-5-carboxamide

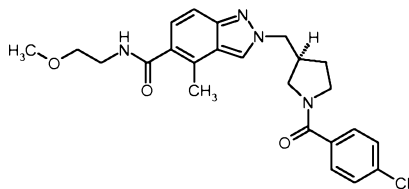


20 Analogously to Example 55, 49 mg of the title compound was obtained from 106 mg of the compound prepared in Example 220b and 62 mg of 4-(trifluoromethoxy)benzoyl chloride.

¹H-NMR (300 MHz, DMSO-d₆): δ = 1.58-1.74 (1H), 1.81-1.98 (1H), 2.48 / 2.53 (3H), 2.78-2.94 (1H), 3.12-3.62 (8H), 4.40 / 4.52 (2H), 7.14-7.23 (1H), 7.32-7.49 (3H), 7.61 (2H), 8.35-8.43 (1H), 8.49 / 8.58 (1H).

25

Example 222: 2-{{[(S)-1-(4-chlorobenzoyl)pyrrolidin-3-yl]methyl}-N-(2-methoxyethyl)-4-methyl-2H-indazol-5-carboxamide

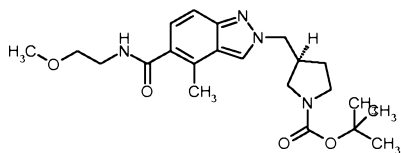


Analogously to Example 55, 67 mg of the title compound was obtained from 134 mg of the compound prepared in Example 222a and 73 mg of 4-chlorobenzoyl chloride.

¹H-NMR (300 MHz, CDCl₃): δ = 1.72-1.86 (1H), 1.99-2.20 (1H), 2.64 (3H), 2.93-3.13 (1H),
 5 3.29-3.36 (1H), 3.39 (3H), 3.45-3.71 (6H), 3.76-3.86 (1H), 4.31-4.57 (2H), 6.12-6.20 (1H), 7.30-7.42 (3H), 7.43-7.56 (3H), 7.90 / 8.02 (1H).

The starting material was prepared as follows:

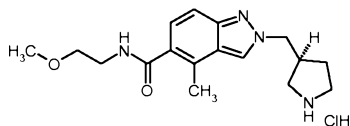
10 **Example 222a:** (S)-tert-butyl 3-({5-[N-(2-methoxyethyl)carbamoyl]-4-methyl-2H-indazol-2-yl} methyl)pyrrolidin-1-carboxylate



Analogously to Example 217a to 217d, this title compound was prepared in a quantity of 760 mg starting from (S)-tert-butyl-3-(hydroxymethyl)pyrrolidin-1-carboxylate.

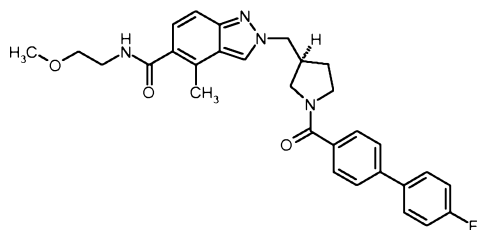
15 ¹H-NMR (300 MHz, DMSO-d₆): δ = 1.35 (9H), 1.52-1.64 (1H), 1.77-1.87 (1H), 1.76-1.82 (1H), 2.50 (3H), 2.74-2.86 (1H), 3.02 (1H), 3.12-3.20 (1H), 3.25 (3H), 3.31 (1H), 3.36 (2H), 3.43 (2H), 4.42 (2H), 7.16 (1H), 7.39 (1H), 8.10 (1H), 8.51 (1H).

20 **Example 222b:** N-(2-methoxyethyl)-4-methyl-2-[(S)-pyrrolidin-3-ylmethyl]-2H-indazol-5-carboxamide hydrochloride



Analogously to Example 1a, from 159 mg of the amide prepared in Example 222a, 134 mg of the title compound was obtained, which was reacted without further purification.

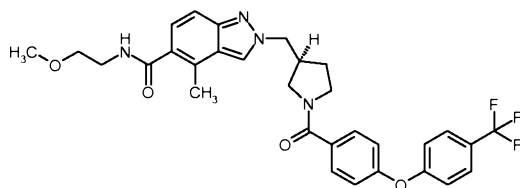
25 **Example 223:** 2-({(S)-1-[(4'-fluorobiphenyl-4-yl)carbonyl]pyrrolidin-3-yl} methyl)-N-(2-methoxyethyl)-4-methyl-2H-indazol-5-carboxamide



Analogously to Example 1, 128 mg of the title compound was obtained from 230 mg of the compound prepared in Example 222b and 141 mg of 4'-fluorobiphenyl-4-carboxylic acid.

¹H-NMR (300 MHz, CDCl₃): δ = 1.73-1.89 (1H), 1.98-2.24 (1H), 2.60 / 2.67 (3H), 2.94-3.18 (1H), 3.37 / 3.39 (3H), 3.49-3.76 (6H), 3.79-3.91 (2H), 4.32-4.61 (2H), 6.08-6.21 (1H), 7.09-7.20 (2H), 7.28-7.38 (1H), 7.46-7.62 (7H), 7.91 / 8.04 (1H).

Example 224: N-(2-methoxyethyl)-4-methyl-2-{[(S)-1-{4-[4-(trifluoromethyl)phenoxy]benzoyl}pyrrolidin-3-yl)methyl]-2H-indazol-5-carboxamide



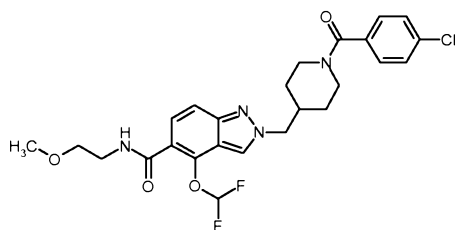
10

Analogously to Example 1, 102 mg of the title compound was obtained from 230 mg of the compound prepared in Example 222b and 184 mg of 4-[4-(trifluoromethyl)phenoxy]benzoic acid.

¹H-NMR (300 MHz, CDCl₃): δ = 1.70-2.25 (2H), 2.63 / 2.66 (3H), 2.94-3.17 (1H), 3.39 (3H), 3.47-3.92 (8H), 4.33-4.59 (2H), 6.15 (1H), 7.00-7.11 (4H), 7.30-7.40 (1H), 7.47-7.65 (5H), 7.91 / 8.03 (1H).

15

Example 225: 2-{[1-(4-chlorobenzoyl)piperidin-4-yl)methyl]-4-(difluoromethoxy)-N-(2-methoxyethyl)-2H-indazol-5-carboxamide



20

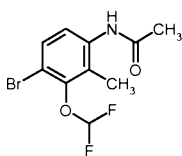
Analogously to Example 55, 90 mg of the title compound was obtained from 106 mg of the compound prepared in Example 225h and 49 mg of 4-chlorobenzoyl chloride.

¹H-NMR (300 MHz, DMSO-d₆): δ = 1.14-1.58 (4H), 2.19-2.34 (1H), 2.67-2.81 (1H), 2.97 (1H), 3.22-3.53 (9H), 4.37 (2H), 7.13 (1H), 7.31-7.39 (3H), 7.47 (2H), 7.54 (1H), 8.21 (1H), 8.50 (1H).

25

The starting material was prepared as follows:

Example 225a: N-[4-bromo-3-(difluoromethoxy)-2-methylphenyl]acetamide

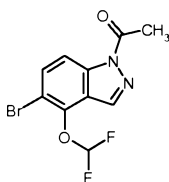


To a solution of 5.0 g of 3-difluoromethoxy-2-methylaniline in 48 ml DMF, a solution of 5.1 g of N-bromosuccinimide in 24 ml DMF was added dropwise at 0°C and stirred for 1 hour at 0°C. Then the reaction mixture was diluted with 400 ml hexane / ethyl acetate, and washed once with 50 ml of a 10% aqueous sodium carbonate solution and three times with 50 ml portions of water. After drying over sodium sulphate and filtration, this was concentrated in vacuo. The crude product thus obtained (6.68 g) was used in the next step without purification.

To a solution of 6.39 g of the bromide prepared above in 70 ml pyridine, 3.0 ml of acetic anhydride were added dropwise at 0°C and stirred for 20 hours at 25°C. The reaction mixture was concentrated in vacuo and the crude product thus obtained purified by column chromatography on silica gel with hexane / 0-100% ethyl acetate. The substance was then recrystallized from hexane. In this manner, 6.39 g of the title compound was obtained.

¹H-NMR (300 MHz, CDCl₃): δ = 2.22 (3H), 2.27 (3H), 6.51 (1H), 6.95 (1H), 7.46 (1H), 7.71 (1H).

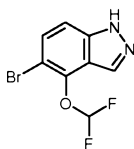
Example 225b: 1-[5-bromo-4-(difluoromethoxy)-1H-indazol-1-yl]ethan-1-one



Analogously to Example 212c, 5.32 g of the title compound was obtained from 6.38 g of the amide prepared in Example 225a.

¹H-NMR (300 MHz, DMSO-d₆): δ = 2.70 (3H), 7.34 (1H), 7.90 (1H), 8.16 (1H), 8.46 (1H).

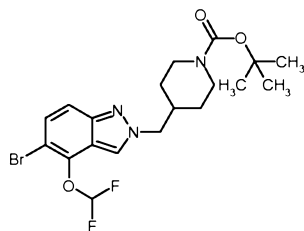
Example 225c: 5-bromo-4-(difluoromethoxy)-1H-indazole



Analogously to Example 212d, 4.12 g of the title compound was obtained from 5.32 g of the indazole prepared in Example 225b.

¹H-NMR (300 MHz, DMSO-d₆): δ = 7.30 (1H), 7.44 (1H), 7.56 (1H), 8.06 (1H), 13.54 (1H).

Example 225d: Tert-butyl 4-{{[5-bromo-4-(difluoromethoxy)-2H-indazol-2-yl]methyl}-piperidin-1-carboxylate



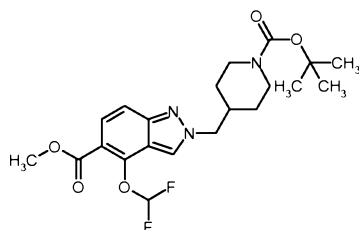
5

Analogously to Example 212e, 2.06 g of the title compound was obtained from 4.1 g of the indazole prepared in Example 225c and 8.7 g of tert-butyl 4-[(tosyloxy)methyl]piperidin-1-carboxylate.

¹H-NMR (300 MHz, CDCl₃): δ = 1.19-1.28 (2H), 1.45 (9H), 1.51-1.59 (2H), 2.25 (1H), 2.68 (2H), 4.12 (2H), 4.27 (2H), 6.61 (1H), 7.41 (1H), 7.50 (1H), 7.95 (1H).

10

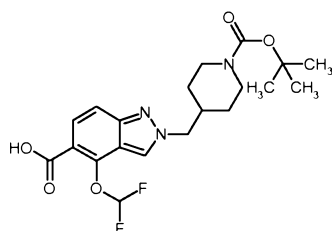
Example 225e: Methyl 2-{{[1-(tert-butoxycarbonyl)piperidin-4-yl]methyl}-4-(difluoromethoxy)-2H-indazol-5-carboxylate



15 Analogously to Example 1e, after three runs 1.28 g of the title compound was obtained from 683 mg of the bromide prepared in Example 225d and 0.18 ml of methanol.

¹H-NMR (300 MHz, DMSO-d₆): δ = 0.96-1.22 (2H), 1.28-1.47 (11H), 2.14 (1H), 2.54-2.74 (2H), 3.81 (3H), 3.87 (2H), 4.36 (2H), 7.17 (1H), 7.58 (1H), 7.65 (1H), 8.62 (1H).

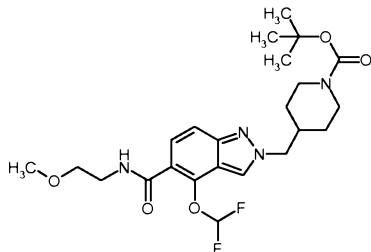
20 **Example 225f:** 2-{{[1-(tert-butoxycarbonyl)piperidin-4-yl]methyl}-4-(difluoromethoxy)-2H-indazol-5-carboxylic acid



Analogously to Example 1d, 1.05 g of the title compound was obtained from 1.28 g of the ester prepared in Example 225e.

¹H-NMR (300 MHz, DMSO-d₆): δ = 0.97-1.16 (2H), 1.28-1.47 (11H), 2.13 (1H), 2.63 (2H), 3.87 (2H), 4.35 (2H), 7.14 (1H), 7.54 (1H), 7.65 (1H), 8.58 (1H), 13.05 (1H).

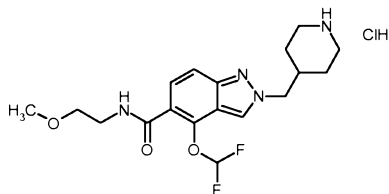
Example 225g: Tert-butyl 4-({4-(difluoromethoxy)-5-[N-(2-methoxyethyl)carbamoyl]-2H-indazol-2-yl}methyl)piperidin-1-carboxylate



Analogously to Example 1, 503 mg of the title compound was obtained from 520 mg of the compound prepared in Example 225f and 92 mg of 2-methoxyethylamine.

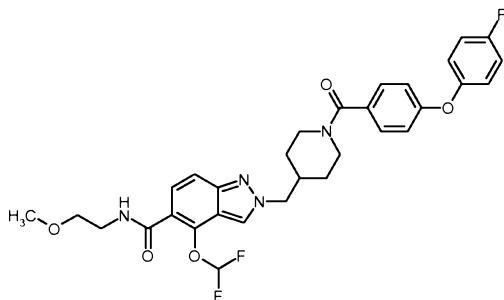
¹H-NMR (300 MHz, DMSO-d₆): δ = 1.01-1.13 (2H), 1.34 (9H), 1.38 (2H), 2.13 (1H), 2.59-2.71 (6H), 3.24 (3H), 3.34-3.44 (2H), 3.87 (2H), 4.34 (2H), 7.14 (1H), 7.33 (1H), 7.54 (1H), 8.21 (1H), 8.50 (1H).

Example 225h: 4-(difluoromethoxy)-N-(2-methoxyethyl)-2-(4-piperidylmethyl)-2H-indazol-5-carboxamide hydrochloride



Analogously to Example 1a, from 122 mg of the amide prepared in Example 225g, 106 mg of the title compound was obtained, which was reacted without further purification.

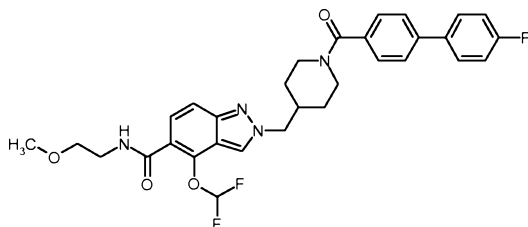
Example 226: 4-(difluoromethoxy)-2-({1-[4-(4-fluorophenoxy)benzoyl]piperidin-4-yl}methyl)-N-(2-methoxyethyl)-2H-indazol-5-carboxamide



Analogously to Example 1, 11 mg of the title compound was obtained from 106 mg of the compound prepared in Example 225h and 59 mg of 4-(4-fluorophenoxy)benzoic acid.

¹H-NMR (300 MHz, DMSO-d₆): δ = 1.10-1.59 (4H), 2.23-2.33 (1H), 2.75-3.01 (2H), 3.24 (3H), 3.33-3.51 (5H), 3.51-3.72 (1H), 4.37 (2H), 6.95 (2H), 7.07-7.12 (2H), 7.13 (1H), 7.17-7.26 (2H), 7.28-7.39 (3H), 7.54 (1H), 8.21 (1H), 8.50 (1H).

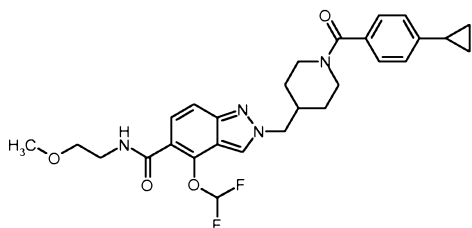
- 5 **Example 227:** 4-(difluoromethoxy)-2-({1-[(4'-fluorobiphenyl-4-yl)carbonyl]piperidin-4-yl} methyl)-N-(2-methoxyethyl)-2H-indazol-5-carboxamide



Analogously to Example 1, 38 mg of the title compound was obtained from 106 mg of the compound prepared in Example 225h and 55 mg of 4'-fluorobiphenyl-4-carboxylic acid.

- 10 ¹H-NMR (300 MHz, DMSO-d₆): δ = 1.14-1.62 (4H), 2.23-2.35 (1H), 2.68-2.85 (1H), 2.91-3.09 (1H), 3.24 (3H), 3.32-3.48 (5H), 3.50-3.70 (1H), 4.38 (2H), 7.14 (1H), 7.28 (2H), 7.33 (1H), 7.40 (2H), 7.55 (1H), 7.64-7.75 (4H), 8.21 (1H), 8.51 (1H).

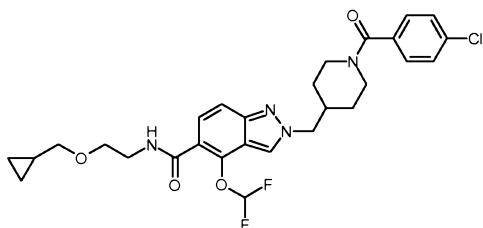
- 15 **Example 228:** 2-{[1-(4-cyclopropylbenzoyl)piperidin-4-yl]methyl}-4-(difluoromethoxy)-N-(2-methoxyethyl)-2H-indazol-5-carboxamide



Analogously to Example 1, 75 mg of the title compound was obtained from 106 mg of the compound prepared in Example 225h and 41 mg of 4-cyclopropylbenzoic acid.

- 20 ¹H-NMR (300 MHz, DMSO-d₆): δ = 0.66 (2H), 0.94 (2H), 1.10-1.54 (4H), 1.90 (1H), 2.14-2.31 (1H), 2.72-3.02 (2H), 3.03-3.18 (1H), 3.24 (3H), 3.33-3.47 (4H), 3.49-3.68 (1H), 4.37 (2H), 7.07 (2H), 7.13 (1H), 7.19 (2H), 7.33 (1H), 7.54 (1H), 8.21 (1H), 8.50 (1H).

- Example 229:** 2-{[1-(4-chlorobenzoyl)piperidin-4-yl]methyl}-N-[2-(cyclopropylmethoxy)-ethyl]-4-(difluoromethoxy)-2H-indazol-5-carboxamide

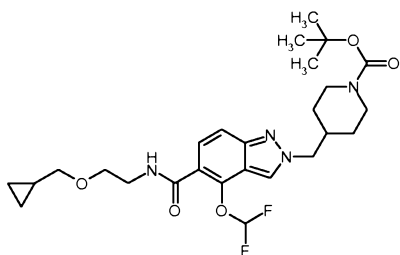


Analogously to Example 55, 170 mg of the title compound was obtained from 127 mg of the compound prepared in Example 229b and 53 mg of 4-chlorobenzoyl chloride.

¹H-NMR (300 MHz, DMSO-d₆): δ = 0.14 (2H), 0.42 (2H), 0.96 (1H), 1.10-1.27 (2H), 1.37 (1H), 1.51 (1H), 2.26 (1H), 2.71 (1H), 2.97 (1H), 3.20-3.55 (8H), 4.37 (2H), 7.14 (1H), 7.31-7.38 (3H), 7.47 (2H), 7.55 (1H), 8.21 (1H), 8.51 (1H).

The starting material was prepared as follows:

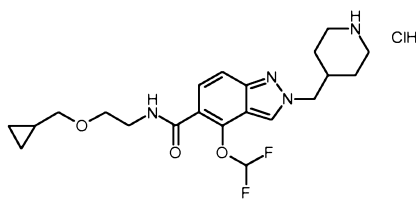
Example 229a: Tert-butyl 4-{[5-{N-[2-(cyclopropylmethoxy)ethyl]carbamoyl}-4-(difluoromethoxy)-2H-indazol-2-yl]methyl}piperidin-1-carboxylate



Analogously to Example 1, 453 mg of the title compound was obtained from 520 mg of the compound prepared in Example 225f and 185 mg of 2-(cyclopropylmethoxy)ethylamine.

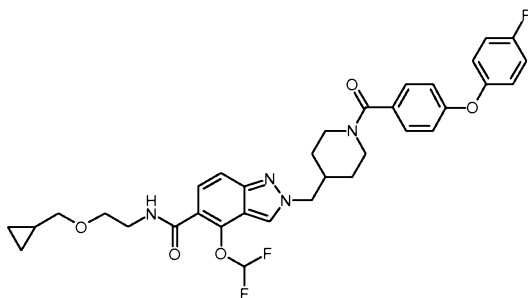
¹H-NMR (300 MHz, DMSO-d₆): δ = 0.14 (2H), 0.42 (2H), 0.97 (1H), 1.07 (2H), 1.34 (9H), 1.39 (2H), 2.13 (1H), 2.56-2.72 (2H), 3.23 (2H), 3.37 (2H), 3.48 (2H), 3.87 (2H), 4.34 (2H), 7.15 (1H), 7.34 (1H), 7.55 (1H), 8.21 (1H), 8.50 (1H).

Example 229b: N-[(2-cyclopropylmethoxy)ethyl]-4-(difluoromethoxy)-2-(4-piperidylmethyl)-2H-indazol-5-carboxamide hydrochloride



Analogously to Example 1a, from 145 mg of the amide prepared in Example 229a, 127 mg of the title compound was obtained, which was reacted without further purification.

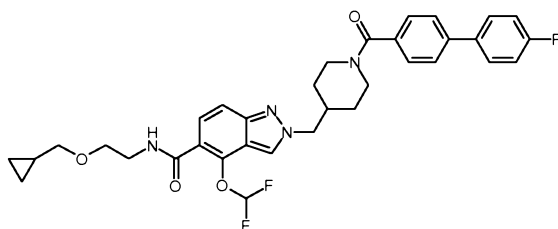
Example 230: N-[2-(cyclopropylmethoxy)ethyl]-4-(difluoromethoxy)-2-({1-[4-(4-fluorophenoxy)benzoyl]piperidin-4-yl}methyl)-2H-indazol-5-carboxamide



Analogously to Example 1, 156 mg of the title compound was obtained from 127 mg of the compound prepared in Example 229b and 64 mg of 4-(4-fluorophenoxy)benzoic acid.

¹H-NMR (300 MHz, DMSO-d₆): δ = 0.14 (2H), 0.42 (2H), 0.96 (1H), 1.10-1.54 (4H), 2.18-2.33 (1H), 2.71-3.02 (2H), 3.03-3.16 (1H), 3.22 (2H), 3.37 (2H), 3.47 (2H), 3.55-3.68 (1H), 4.37 (2H), 6.95 (2H), 7.10 (2H), 7.14 (1H), 7.22 (2H), 7.34 (3H), 7.55 (1H), 8.21 (1H), 8.51 (1H).

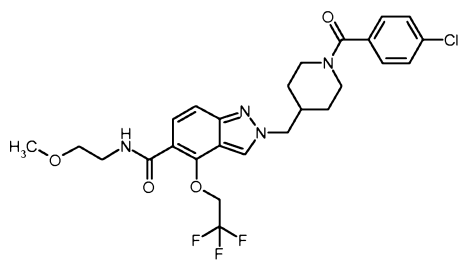
Example 231: N-[2-(cyclopropylmethoxy)ethyl]-4-(difluoromethoxy)-2-({1-[(4'-fluorobiphenyl-4-yl)carbonyl]piperidin-4-yl}methyl)-2H-indazol-5-carboxamide



Analogously to Example 1, 164 mg of the title compound was obtained from 127 mg of the compound prepared in Example 229b and 60 mg of 4'-fluorobiphenyl-4-carboxylic acid.

¹H-NMR (300 MHz, DMSO-d₆): δ = 0.14 (2H), 0.42 (2H), 0.96 (1H), 1.14-1.60 (4H), 2.27 (1H), 2.70-3.04 (1H), 2.87 (1H), 3.03-3.15 (1H), 3.22 (2H), 3.37 (2H), 3.47 (2H), 3.60 (1H), 4.38 (2H), 7.14 (1H), 7.28 (2H), 7.34 (1H), 7.41 (2H), 7.55 (1H), 7.64-7.75 (4H), 8.21 (1H), 8.52 (1H).

Example 232: 2-{{1-(4-chlorobenzoyl)piperidin-4-yl}methyl}-N-(2-methoxyethyl)-4-(2,2,2-trifluoroethoxy)-2H-indazol-5-carboxamide



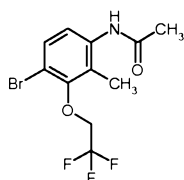
Analogously to Example 55, 113 mg of the title compound was obtained from 109 mg of the compound prepared in Example 232h and 46 mg of 4-chlorobenzoyl chloride.

¹H-NMR (300 MHz, DMSO-d₆): δ = 1.12-1.61 (3H), 2.19-2.34 (1H), 2.67-3.07 (2H), 3.23 (3H), 3.33-3.56 (4H), 4.28-4.47 (3H), 4.95 (2H), 7.31-7.39 (3H), 7.40-7.50 (3H), 7.99 (1H), 8.65 (1H).

The starting material was prepared as follows:

5

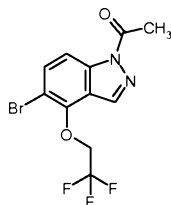
Example 232a: N-[4-bromo-2-methyl-3-(2,2,2-trifluoroethoxy)phenyl]acetamide



Analogously to Example 225a, 6.13 g of the title compound was obtained from 5.0 g of 2-methyl-3-(2,2,2-trifluoroethoxy)aniline.

10 ¹H-NMR (300 MHz, DMSO-d₆): δ = 2.07 (3H), 2.18 (3H), 4.55 (2H), 7.29 (1H), 7.45 (1H), 9.42 (1H).

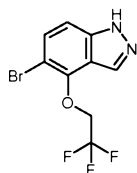
Example 232b: 1-[5-bromo-4-(2,2,2-trifluoroethoxy)-1H-indazol-1-yl]ethan-1-one



15 Analogously to Example 212c, 5.08 g of the title compound was obtained from 6.13 g of the amide prepared in Example 232a.

¹H-NMR (300 MHz, DMSO-d₆): δ = 2.69 (3H), 5.14 (2H), 7.80 (1H), 7.99 (1H), 8.64 (1H).

Example 232c: 5-bromo-4-(2,2,2-trifluoroethoxy)-1H-indazole

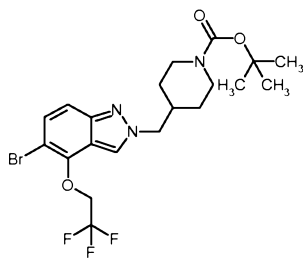


20

Analogously to Example 212d, 3.57 g of the title compound was obtained from 5.08 g of the indazole prepared in Example 232b.

¹H-NMR (300 MHz, DMSO-d₆): δ = 5.05 (2H), 7.24 (1H), 7.45 (1H), 8.26 (1H), 13.38 (1H).

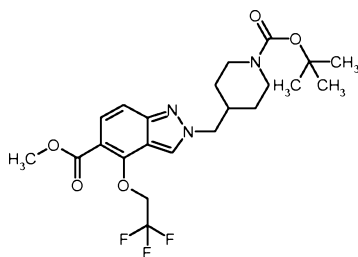
25 **Example 232d:** Tert-butyl 4-{[5-bromo-4-(2,2,2-trifluoroethoxy)-2H-indazol-2-yl]methyl}-piperidin-1-carboxylate



Analogously to Example 212e, 1.77 g of the title compound was obtained from 3.57 g of the indazole prepared in Example 232c and 6.7 g of tert-butyl 4-[(tosyloxy)methyl]piperidin-1-carboxylate.

- 5 ¹H-NMR (300 MHz, CDCl₃): δ = 1.16-1.31 (2H), 1.45 (9H), 1.54 (2H), 2.25 (1H), 2.68 (2H), 4.05-4.21 (2H), 4.27 (2H), 4.54 (2H), 7.35 (1H), 7.41 (1H), 7.91 (1H).

Example 232e: Methyl 2- {[1-(tert-butoxycarbonyl)piperidin-4-yl]methyl}-4-(2,2,2-trifluoroethoxy)-2H-indazole-5-carboxylate



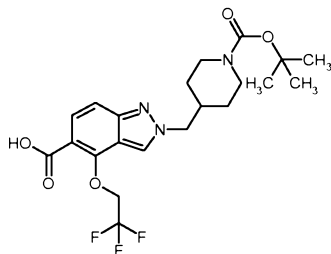
10

Analogously to Example 1e, after three runs 857 mg of the title compound was obtained from 590 mg of the bromide prepared in Example 232d and 0.15 ml of methanol.

¹H-NMR (300 MHz, DMSO-d₆): δ = 1.00-1.17 (2H), 1.34 (9H), 1.37-1.47 (2H), 2.13 (1H), 2.55-2.74 (2H), 3.79 (3H), 3.87 (2H), 4.32 (2H), 4.89 (2H), 7.39 (1H), 7.56 (1H), 8.67 (1H).

15

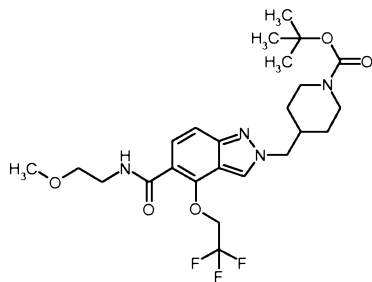
Example 232f: 2- {[1-(tert-butoxycarbonyl)piperidin-4-yl]methyl}-4-(2,2,2-trifluoroethoxy)-2H-indazole-5-carboxylic acid



20 Analogously to Example 1d, 724 mg of the title compound was obtained from 854 mg of the ester prepared in Example 232e.

¹H-NMR (300 MHz, DMSO-d₆): δ = 1.01-1.17 (2H), 1.34 (9H), 1.40 (2H), 2.13 (1H), 2.53-2.75 (2H), 3.87 (2H), 4.32 (2H), 4.84 (2H), 7.37 (1H), 7.58 (1H), 8.60 (1H), 12.74 (1H).

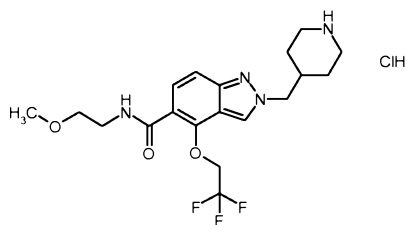
Example 232g: Tert-butyl 4-(5-[N-(2-methoxyethyl)carbamoyl]-4-(2,2,2-trifluoroethoxy)-2H-indazol-2-yl)methyl)piperidin-1-carboxylate



Analogously to Example 1, 386 mg of the title compound was obtained from 360 mg of the compound prepared in Example 232f and 59 mg of 2-methoxyethylamine.

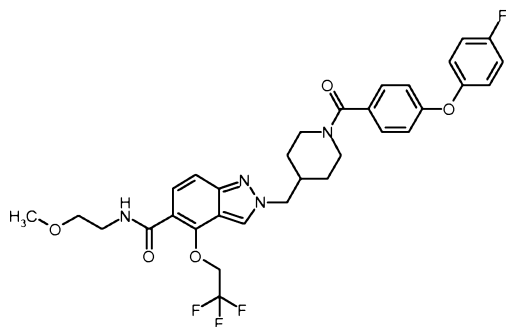
¹H-NMR (300 MHz, DMSO-d₆): δ = 0.98-1.18 (2H), 1.34 (9H), 1.43 (2H), 2.14 (1H), 2.65 (2H), 3.23 (3H), 3.35-3.47 (4H), 3.88 (2H), 4.30 (2H), 4.96 (2H), 7.35 (1H), 7.43 (1H), 7.99 (1H), 8.65 (1H).

Example 232h: N-(2-methoxyethyl)-2-(4-piperidylmethyl)-4-(2,2,2-trifluoroethoxy)-2H-indazol-5-carboxamide hydrochloride



Analogously to Example 1a, from 109 mg of the amide prepared in Example 232g, 113 mg of the title compound was obtained, which was reacted without further purification.

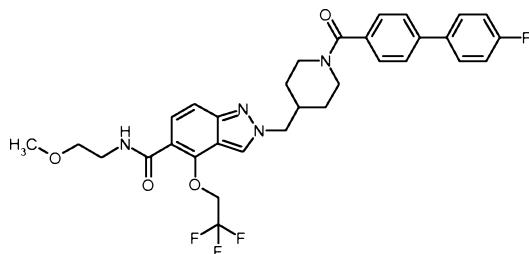
Example 233: 2-(1-[4-(4-fluorophenoxy)benzoyl]piperidin-4-yl)methyl)-N-(2-methoxyethyl)-4-(2,2,2-trifluoroethoxy)-2H-indazol-5-carboxamide



Analogously to Example 1, 51 mg of the title compound was obtained from 109 mg of the compound prepared in Example 232h and 56 mg of 4-(4-fluorophenoxy)benzoic acid.

¹H-NMR (300 MHz, DMSO-d₆): δ = 1.10-1.31 (1H), 1.48 (2H), 2.18-2.37 (1H), 2.69-3.04 (2H), 3.23 (3H), 3.37-3.48 (4H), 3.56-3.71 (1H), 4.33 (2H), 4.95 (2H), 6.95 (2H), 7.06-7.15 (2H), 7.18-7.27 (2H), 7.31-7.38 (3H), 7.40-7.47 (1H), 7.99 (1H), 8.66 (1H).

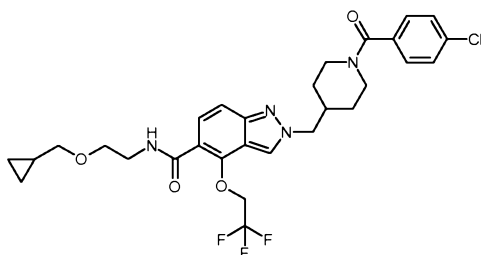
- 5 **Example 234:** 2-($\{1-[(4'-\text{fluorobiphenyl-4-yl})\text{carbonyl}] \text{piperidin-4-yl}\}$ methyl)-N-(2-methoxyethyl)-4-(2,2,2-trifluoroethoxy)-2H-indazol-5-carboxamide



Analogously to Example 1, 61 mg of the title compound was obtained from 109 mg of the compound prepared in Example 232h and 52 mg of 4-(4-fluorophenyl)benzoic acid.

- 10 ¹H-NMR (300 MHz, DMSO-d₆): δ = 1.14-1.63 (3H), 2.19-2.37 (1H), 2.68-3.09 (2H), 3.23 (3H), 3.34-3.48 (4H), 3.62 (1H), 4.28-4.42 (2H), 4.96 (2H), 7.22-7.47 (6H), 7.64-7.76 (4H), 7.99 (1H), 8.66 (1H).

- 15 **Example 235:** 2- $\{[1-(4\text{-chlorobenzoyl})\text{piperidin-4-yl}] \text{methyl}\}$ -N-[2-(cyclopropylmethoxy)ethyl]-4-(2,2,2-trifluoroethoxy)-2H-indazol-5-carboxamide

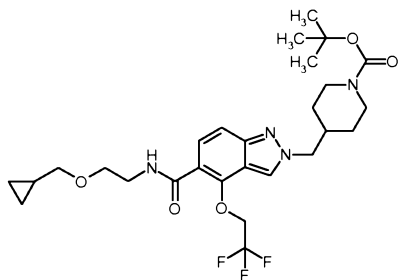


Analogously to Example 55, 122 mg of the title compound was obtained from 122 mg of the compound prepared in Example 235b and 48 mg of 4-chlorobenzoyl chloride.

- 20 ¹H-NMR (300 MHz, DMSO-d₆): δ = 0.13 (2H), 0.41 (2H), 0.95 (1H), 1.11-1.62 (3H), 2.19-2.34 (1H), 2.73 (1H), 2.98 (1H), 3.21 (2H), 3.33-3.57 (5H), 4.33 (2H), 4.95 (2H), 7.31-7.51 (6H), 8.00 (1H), 8.65 (1H).

The starting material was prepared as follows:

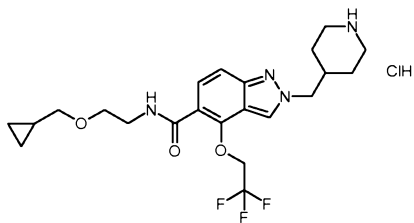
- 25 **Example 235a:** Tert-butyl 4- $\{[5-\{N-[2-(\text{cyclopropylmethoxy})\text{ethyl}] \text{carbamoyl}\}-4-(2,2,2\text{-trifluoroethoxy})\text{-2H-indazol-2-yl}\}] \text{methyl}\}$ piperidin-1-carboxylate



Analogously to Example 1, 429 mg of the title compound was obtained from 360 mg of the compound prepared in Example 232f and 119 mg of 2-(cyclopropylmethoxy)ethylamine.

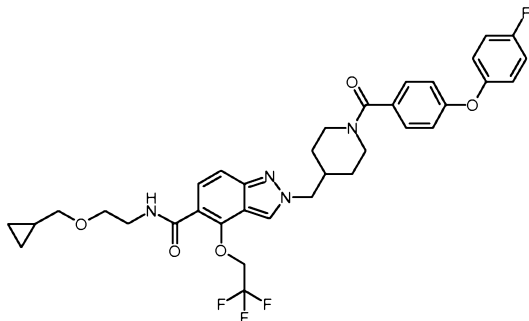
¹H-NMR (300 MHz, DMSO-d₆): δ = 0.13 (2H), 0.42 (2H), 0.95 (1H), 1.08 (2H), 1.34 (9H), 1.41 (2H), 2.14 (1H), 3.22 (2H), 3.41 (2H), 3.48 (2H), 3.88 (2H), 4.30 (2H), 4.95 (2H), 7.35 (1H), 7.42 (1H), 8.00 (1H), 8.65 (1H).

Example 235b: N-[2-(cyclopropylmethoxy)ethyl]-2-(4-piperidylmethyl)-4-(2,2,2-trifluoroethoxy)-2H-indazol-5-carboxamide hydrochloride



Analogously to Example 1a, from 138 mg of the amide prepared in Example 235a, 122 mg of the title compound was obtained, which was reacted without further purification.

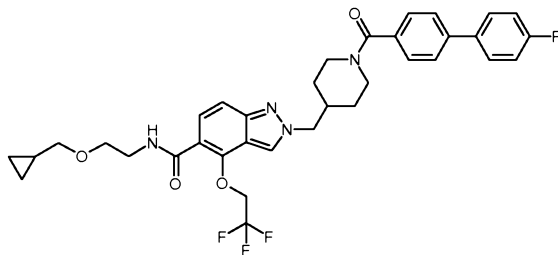
Example 236: N-[2-(cyclopropylmethoxy)ethyl]-2-(1-[4-(4-fluorophenoxy)benzoyl]piperidin-4-yl)methyl)-4-(2,2,2-trifluoroethoxy)-2H-indazol-5-carboxamide



Analogously to Example 1, 95 mg of the title compound was obtained from 122 mg of the compound prepared in Example 235b and 58 mg of 4-(4-fluorophenoxy)benzoic acid.

¹H-NMR (300 MHz, DMSO-d₆): δ = 0.13 (2H), 0.41 (2H), 0.95 (1H), 1.09-1.60 (3H), 2.17-2.36 (1H), 2.68-3.06 (2H), 3.22 (2H), 3.34-3.76 (5H), 4.33 (2H), 4.95 (2H), 6.95 (2H), 7.06-7.14 (2H), 7.17-7.27 (2H), 7.30-7.38 (3H), 7.42 (1H), 7.99 (1H), 8.65 (1H).

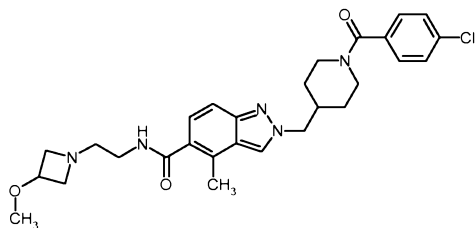
Example 237: N-[2-(cyclopropylmethoxy)ethyl]-2-({1-[(4'-fluorobiphenyl-4-yl)carbonyl]piperidin-4-yl} methyl)-4-(2,2,2-trifluoroethoxy)-2H-indazol-5-carboxamide



Analogously to Example 1, 98 mg of the title compound was obtained from 122 mg of the compound prepared in Example 235b and 54 mg of 4-(4-fluorophenoxy)benzoic acid.

¹H-NMR (300 MHz, DMSO-d₆): δ = 0.12 (2H), 0.41 (2H), 0.95 (1H), 1.15-1.64 (3H), 2.21-2.36 (1H), 2.70-3.10 (2H), 3.21 (2H), 3.35-3.69 (5H), 4.35 (2H), 4.95 (2H), 7.22-7.46 (6H), 7.63-7.77 (4H), 7.99 (1H), 8.66 (1H).

Example 238: 2-{{1-(4-chlorobenzoyl)piperidin-4-yl}methyl}-N-[2-(3-methoxyazetidin-1-yl)ethyl]-4-methyl-2H-indazol-5-carboxamide

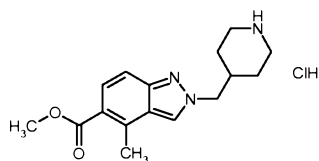


Analogously to Example 1, 33 mg of the title compound was obtained from 120 mg of the compound prepared in Example 238c and 40 mg of 2-(3-methoxyazetidin-1-yl)ethylamine (prepared analogously to WO2006/104406).

¹H-NMR (300 MHz, CDCl₃): δ = 0.83 (1H), 1.20-2.01 (4H), 2.38 (1H), 2.66 (3H), 2.69-3.09 (2H), 3.31 (3H), 3.43 (2H), 3.56-3.90 (5H), 4.18-4.32 (3H), 4.43 (2H), 6.91 (1H), 7.30-7.41 (5H), 7.52 (1H), 7.95 (1H).

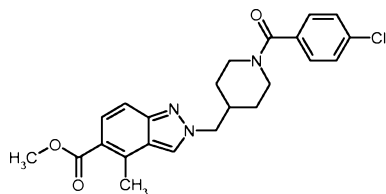
The starting material was prepared as follows:

Example 238a: methyl 4-methyl-2-(4-piperidylmethyl)-2H-indazol-5-carboxylate hydrochloride



Analogously to Example 1a, from 3.0 g of the ester prepared in Example 1e, 2.51 g of the title compound was obtained, which was reacted without further purification.

Example 238b: Methyl 2- {[1-(4-chlorobenzoyl)piperidin-4-yl]methyl} -4-methyl-2H-indazol-5-carboxylate

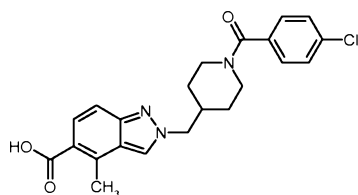


5 Analogously to Example 55, 3.27 g of the title compound was obtained from 2.5 g of the compound prepared in Example 238a and 1.5 g of 4-chlorobenzoyl chloride.

¹H-NMR (300 MHz, DMSO-d₆): δ = 1.16-1.63 (4H), 2.21-2.33 (1H), 2.73 (4H), 2.90-3.05 (1H), 3.44-3.55 (1H), 3.79 (3H), 4.32 (2H), 4.36-4.47 (1H), 7.36 (2H), 7.42 (1H), 7.46 (2H), 7.63 (1H), 8.67 (1H).

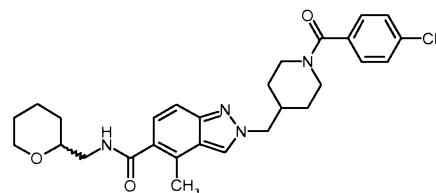
10

Example 238c: 2- {[1-(4-chlorobenzoyl)piperidin-4-yl]methyl} -4-methyl-2H-indazol-5-carboxylic acid



15 Analogously to Example 1d, 470 mg of the title compound was obtained from 485 mg of the ester prepared in Example 238b.

Example 239: (+/-)-2- {[1-(4-chlorobenzoyl)piperidin-4-yl]methyl} -4-methyl-N-(3,4,5,6-tetrahydro-2H-pyran-2-ylmethyl)-2H-indazol-5-carboxamide

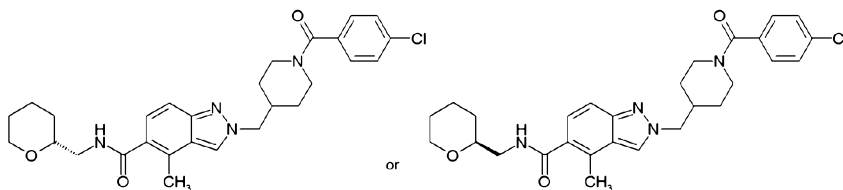


20 Analogously to Example 1, 188 mg of the title compound was obtained from 300 mg of the compound prepared in Example 238c and 92 mg of 3,4,5,6-tetrahydro-2H-pyran-2-ylmethylamine hydrochloride.

¹H-NMR (300 MHz, DMSO-d₆): δ = 1.01-1.27 (3H), 1.29-1.64 (7H), 2.19-2.32 (1H), 2.48 (3H), 2.66-2.80 (1H), 2.89-3.00 (1H), 3.00-3.08 (1H), 3.16-3.25 (2H), 3.34-3.42 (1H), 3.43-3.55 (1H), 3.77-3.88 (1H), 4.31 (2H), 4.39 (1H), 7.14 (1H), 7.32-7.40 (2H), 7.46 (2H), 7.83 (1H), 8.09 (1H), 8.46 (1H).

25

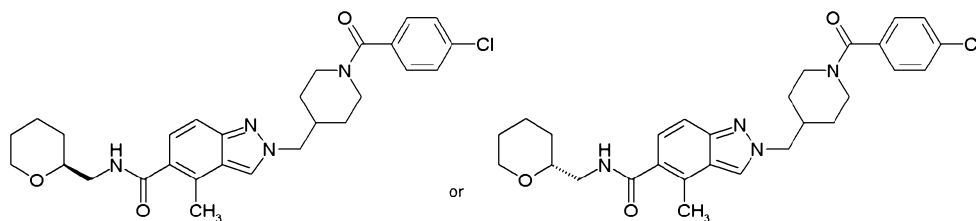
Example 240: (R or S)-2-{{[1-(4-chlorobenzoyl)piperidin-4-yl]methyl}-4-methyl-N-(3,4,5,6-tetrahydro-2H-pyran-2-ylmethyl)-2H-indazol-5-carboxamide



From 185 mg of the racemate prepared in Example 239, 51 mg of the title compound together with 53 mg of the slower-eluting enantiomer (Example 241) were obtained by racemate separation by means of preparative chiral HPLC (Method B).

Analytical chiral HPLC: 7.02 min.

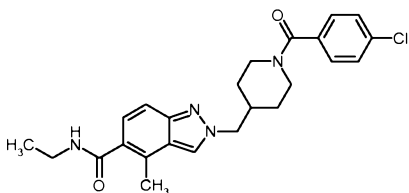
Example 241: (S or R)-2-{{[1-(4-chlorobenzoyl)piperidin-4-yl]methyl}-4-methyl-N-(3,4,5,6-tetrahydro-2H-pyran-2-ylmethyl)-2H-indazol-5-carboxamide



From 185 mg of the racemate prepared in Example 239, 53 mg of the title compound together with 51 mg of the faster-eluting enantiomer (Example 240) were obtained by racemate separation by means of preparative chiral HPLC (Method B).

Analytical chiral HPLC: 8.24 min.

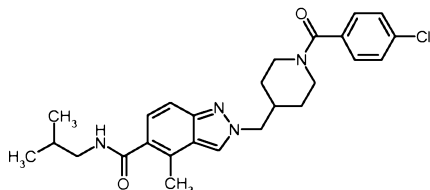
Example 242: 2-{{[1-(4-chlorobenzoyl)piperidin-4-yl]methyl}-N-ethyl-4-methyl-2H-indazol-5-carboxamide



Analogously to Example 1, 85 mg of the title compound was obtained from 300 mg of the compound prepared in Example 238c and 43 mg of ethylamine 2M in THF.

¹H-NMR (300 MHz, DMSO-d₆): δ = 1.08 (3H), 1.16-1.60 (4H), 2.20-2.33 (1H), 2.48 (3H), 2.63-3.07 (2H), 3.22 (2H), 3.48 (1H), 4.24-4.46 (3H), 7.14 (1H), 7.31-7.42 (3H), 7.46 (2H), 8.08 (1H), 8.46 (1H).

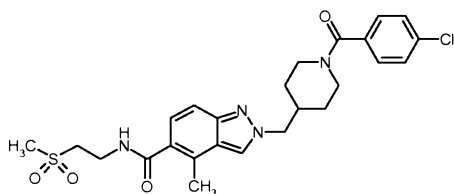
Example 243: 2-{[1-(4-chlorobenzoyl)piperidin-4-yl]methyl}-N-isobutyl-4-methyl-2H-indazol-5-carboxamide



Analogously to Example 1, 92 mg of the title compound was obtained from 300 mg of the compound prepared in Example 238c and 69 mg of isobutylamine.

¹H-NMR (300 MHz, DMSO-d₆): δ = 0.85-0.90 (6H), 1.13-1.57 (4H), 1.75-1.83 (1H), 2.21-2.34 (1H), 2.49 (3H), 3.03 (4H), 3.48 (1H), 4.27-4.45 (3H), 7.14 (1H), 7.31-7.41 (3H), 7.46 (2H), 8.11 (1H), 8.47 (1H).

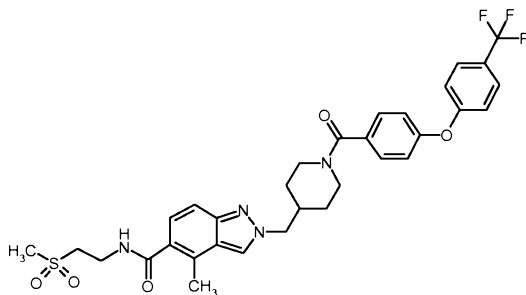
Example 244: 2-{[1-(4-chlorobenzoyl)piperidin-4-yl]methyl}-N-(2-mesyloethyl)-4-methyl-2H-indazol-5-carboxamide



Analogously to Example 1, 132 mg of the title compound was obtained from 300 mg of the compound prepared in Example 238c and 151 mg of 2-mesyloethylamine hydrochloride.

¹H-NMR (300 MHz, DMSO-d₆): δ = 1.19-1.62 (4H), 2.24-2.36 (1H), 2.54 (3H), 2.70-3.05 (2H), 3.05 (3H), 3.38 (2H), 3.52 (1H), 3.65 (2H), 4.30-4.49 (3H), 7.22 (1H), 7.38 (2H), 7.42 (1H), 7.49 (2H), 8.33 (1H), 8.52 (1H).

Example 245: N-(2-mesyloethyl)-4-methyl-2-[(1-{4-[4-(trifluoromethyl)phenoxy]benzoyl}-piperidin-4-yl)methyl]-2H-indazol-5-carboxamide

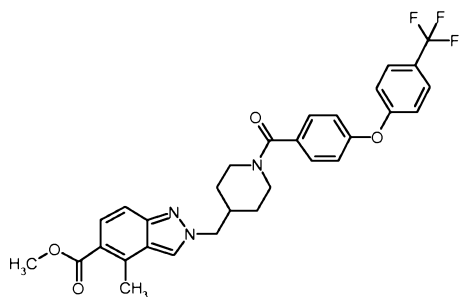


Analogously to Example 1, 67 mg of the title compound was obtained from 137 mg of the compound prepared in Example 245b and 41 mg of 2-mesyloethylamine hydrochloride.

¹H-NMR (300 MHz, DMSO-d₆): δ = 1.15-1.62 (4H), 2.22-2.33 (1H), 2.50 (3H), 2.68-3.01 (2H), 3.02 (2H), 3.35 (1H), 3.52-3.69 (3H), 4.28-4.47 (2H), 7.12 (1H), 7.15-7.22 (2H), 7.37-7.44 (2H), 7.73 (1H), 8.32 (1H), 8.50 (1H).

5 The starting material was prepared as follows:

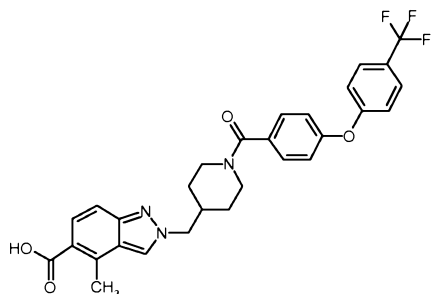
Example 245a: Methyl 4-methyl-2-[(1-{4-[4-(trifluoromethyl)phenoxy]benzoyl}piperidin-4-yl)methyl]-2H-indazol-5-carboxylate



10 Analogously to Example 1, 2.73 g of the title compound was obtained from 3.76 g of the compound prepared in Example 238a and 3.28 g of 4-[4-(trifluoromethyl)phenoxy]benzoic acid. ¹H-NMR (300 MHz, DMSO-d₆): δ = 1.25 (2H), 1.35-1.70 (2H), 2.20-2.37 (1H), 2.65-2.70 (3H), 2.75-3.10 (2H), 3.52-3.72 (1H), 3.82 (4H), 4.36 (2H), 7.14 (2H), 7.20 (2H), 7.39-7.48 (3H), 7.66 (1H), 7.75 (2H), 8.70 (1H).

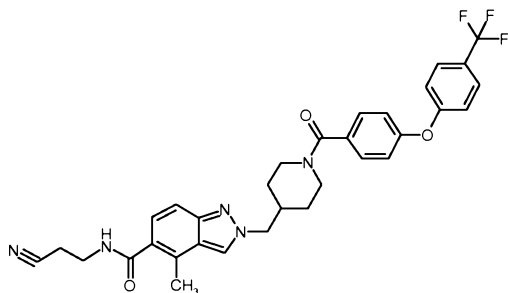
15

Example 245b: 4-methyl-2-[(1-{4-[4-(trifluoromethyl)phenoxy]benzoyl}piperidin-4-yl)methyl]-2H-indazol-5-carboxylic acid



20 Analogously to Example 1d, 1.1 g of the title compound was obtained from 2.73 g of the ester prepared in Example 245a.

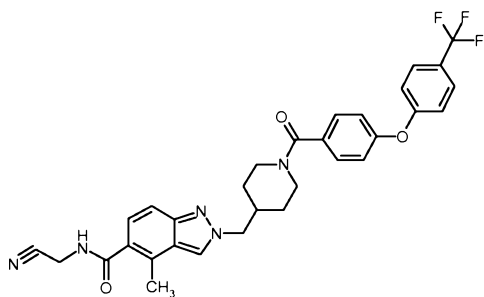
Example 246: N-(2-cyanoethyl)-4-methyl-2-[(1-{4-[4-(trifluoromethyl)phenoxy]benzoyl}piperidin-4-yl)methyl]-2H-indazol-5-carboxamide



Analogously to Example 1, 144 mg of the title compound was obtained from 137 mg of the compound prepared in Example 245b and 18 mg of 3-aminopropanenitrile.

¹H-NMR (300 MHz, DMSO-d₆): δ = 1.13-1.58 (4H), 2.21-2.33 (1H), 2.52 (3H), 2.75 (2H),
 5 2.80-3.16 (2H), 3.44 (2H), 3.59 (1H), 4.27-4.50 (3H), 7.12 (2H), 7.15-7.21 (3H), 7.37-7.44 (3H),
 7.73 (2H), 8.46 (1H), 8.51 (1H)

Example 247: N-(cyanomethyl)-4-methyl-2-[(1-{4-[4-(trifluoromethyl)phenoxy]benzoyl}piperidin-4-yl)methyl]-2H-indazol-5-carboxamide

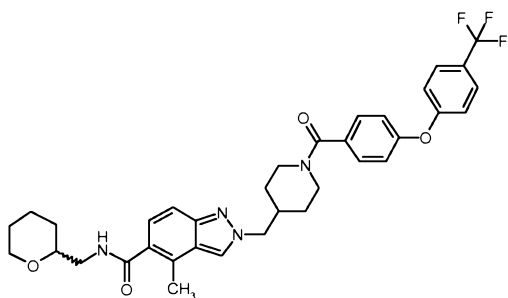


10

Analogously to Example 1, 125 mg of the title compound was obtained from 137 mg of the compound prepared in Example 245b and 24 mg of 2-aminoacetonitrile hydrochloride.

¹H-NMR (300 MHz, DMSO-d₆): δ = 1.16-1.60 (4H), 2.23-2.34 (1H), 2.53 (3H), 2.69-3.06 (2H),
 3.59 (1H), 4.26 (2H), 4.29-4.50 (3H), 7.08-7.23 (5H), 7.38-7.46 (3H), 7.73 (2H), 8.54 (1H), 8.83
 15 (1H).

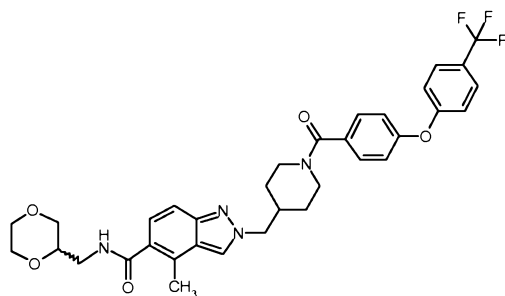
Example 248: (+/-)-4-methyl-N-(3,4,5,6-tetrahydro-2H-pyran-2-ylmethyl)-2-[(1-{4-[4-(trifluoromethyl)phenoxy]benzoyl}piperidin-4-yl)methyl]-2H-indazol-5-carboxamide



Analogously to Example 1, 231 mg of the title compound was obtained from 254 mg of the compound prepared in Example 245b and 72 mg of 3,4,5,6-tetrahydro-2H-pyran-2-ylmethylamine.

¹H-NMR (300 MHz, DMSO-d₆): δ = 1.01-1.66 (10H), 2.24-2.32 (1H), 2.70-3.15 (4H), 3.21 (3H), 3.34-3.43 (1H), 3.54-3.64 (1H), 3.76-3.89 (2H), 4.32 (3H), 7.09-7.21 (5H), 7.35-7.44 (3H), 7.73 (2H), 8.09 (1H), 8.47 (1H).

Example 249: (+/-)-N-(1,4-dioxan-2-ylmethyl)-4-methyl-2-[(1-{4-[4-(trifluoromethyl)phenoxy]benzoyl}piperidin-4-yl)methyl]-2H-indazol-5-carboxamide



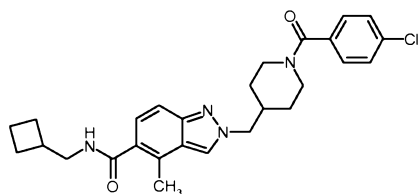
10

Analogously to Example 1, 280 mg of the title compound was obtained from 254 mg of the compound prepared in Example 245b and 73 mg of 1,4-dioxan-2-ylmethylamine.

¹H-NMR (300 MHz, DMSO-d₆): δ = 1.13-1.61 (4H), 2.23-2.32 (1H), 2.49 (3H), 2.75 (1H), 2.94-3.27 (4H), 3.38-3.77 (8H), 4.32 (2H), 7.09-7.21 (5H), 7.36-7.44 (3H), 7.73 (2H), 8.16 (1H), 8.48 (1H).

15

Example 250: 2-{[1-(4-chlorobenzoyl)piperidin-4-yl]methyl}-N-(cyclobutylmethyl)-4-methyl-2H-indazol-5-carboxamide

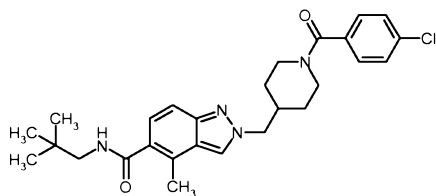


Analogously to Example 1, 79 mg of the title compound was obtained from 300 mg of the compound prepared in Example 238c and 115 mg of cyclobutylmethylamine hydrochloride.

¹H-NMR (300 MHz, DMSO-d₆): δ = 1.16-1.58 (4H), 1.64-1.86 (4H), 1.90-2.01 (2H), 2.19-2.32 (1H), 2.48 (3H), 2.50 (1H), 2.66-3.05 (2H), 3.19-3.25 (2H), 3.48 (1H), 4.27-4.47 (3H), 7.12 (1H), 7.31-7.40 (3H), 7.46 (2H), 8.09 (1H), 8.46 (1H).

25

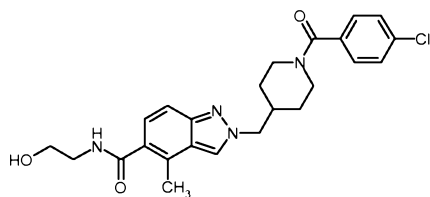
Example 251: 2-{[1-(4-chlorobenzoyl)piperidin-4-yl]methyl}-N-(2,2-dimethylpropyl)-4-methyl-2H-indazol-5-carboxamide



Analogously to Example 1, 108 mg of the title compound was obtained from 300 mg of the compound prepared in Example 238c and 83 mg of 2,2-dimethylpropan-1-amine.

¹H-NMR (300 MHz, DMSO-d₆): δ = 0.91 (9H), 1.17-1.63 (4H), 2.24-2.36 (1H), 2.52 (3H),
 5 2.70-3.04 (2H), 3.07 (2H), 3.52 (1H), 4.30-4.50 (3H), 7.17 (1H), 7.38 (2H), 7.42 (1H), 7.49
 (2H), 8.07 (1H), 8.49 (1H).

Example 252: 2-([1-(4-chlorobenzoyl)piperidin-4-yl]methyl)-N-(2-hydroxyethyl)-4-methyl-2H-indazol-5-carboxamide

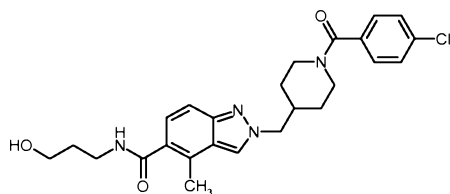


10

Analogously to Example 1, 84 mg of the title compound was obtained from 370 mg of the compound prepared in Example 238c and 54 mg of 2-aminoethanol.

¹H-NMR (300 MHz, DMSO-d₆): δ = 1.14-1.64 (4H), 2.24-2.35 (1H), 2.53 (3H), 2.69-3.09 (2H),
 3.30 (2H), 3.43-3.58 (3H), 4.27-4.50 (3H), 4.67 (1H), 7.20 (1H), 7.35-7.43 (3H), 7.49 (2H), 8.02
 15 (1H), 8.49 (1H).

Example 253: 2-([1-(4-chlorobenzoyl)piperidin-4-yl]methyl)-N-(3-hydroxypropyl)-4-methyl-2H-indazol-5-carboxamide

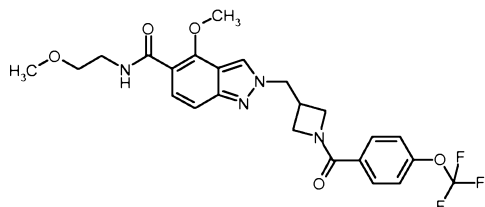


20 Analogously to Example 1, 95 mg of the title compound was obtained from 370 mg of the compound prepared in Example 238c and 66 mg of 3-aminopropan-1-ol.

¹H-NMR (300 MHz, DMSO-d₆): δ = 1.17-1.60 (4H), 1.66 (2H), 2.22-2.35 (1H), 2.53 (3H),
 2.70-3.09 (2H), 3.27 (2H), 3.47 (2H), 3.47-3.67 (1H), 4.34 (2H), 4.41 (1H), 4.45 (1H), 7.17
 (1H), 7.35-7.43 (3H), 7.49 (2H), 8.07 (1H), 8.49 (1H).

25

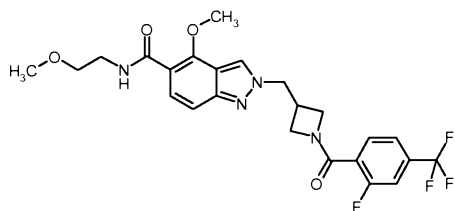
Example 254: 4-methoxy-N-(2-methoxyethyl)-2-([1-(4-(trifluoromethoxy)benzoyl]azetidin-3-yl]methyl)-2H-indazol-5-carboxamide



Analogously to Example 1, 90 mg of the title compound was obtained from 100 mg of the compound prepared in Example 214c and 97 mg of 4-(trifluoromethoxy)benzoic acid in DMF.

¹H-NMR (400 MHz, DMSO-d₆): δ [ppm]= 3.24 - 3.29 (1H), 3.29 - 3.32 (3H), 3.43 - 3.51 (4H),
 5 3.91 - 4.04 (1H), 4.10 - 4.18 (1H), 4.20 (3H), 4.22 - 4.29 (1H), 4.44 (1H), 4.70 (2H), 7.24 (1H),
 7.37 - 7.51 (2H), 7.66 (1H), 7.70 - 7.80 (2H), 8.22 (1H), 8.91 (1H).

Example 255: 2-((1-[2-fluoro-4-(trifluoromethyl)benzoyl]azetidin-3-yl)methyl)-4-methoxy-N-(2-methoxyethyl)-2H-indazol-5-carboxamide

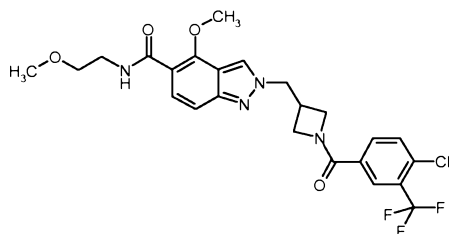


10

Analogously to Example 1, 40 mg of the title compound was obtained from 100 mg of the compound prepared in Example 214c and 98 mg of 2-fluoro-4-(trifluoromethyl)benzoic acid in DMF.

¹H-NMR (400 MHz, DMSO-d₆): δ [ppm]= 3.30 (4H), 3.44 - 3.50 (4H), 3.94 - 4.04 (2H), 4.15
 15 (2H), 4.20 (3H), 4.70 (2H), 7.24 (1H), 7.60 - 7.75 (3H), 7.78 - 7.89 (1H), 8.16 - 8.27 (1H), 8.90
 (1H).

Example 256: 2-((1-[4-chloro-3-(trifluoromethyl)benzoyl]azetidin-3-yl)methyl)-4-methoxy-N-(2-methoxyethyl)-2H-indazol-5-carboxamide

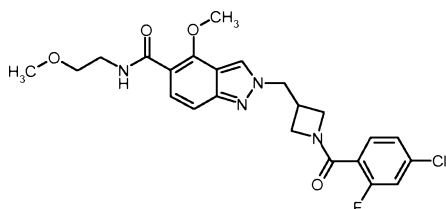


20

Analogously to Example 1, 40 mg of the title compound was obtained from 100 mg of the compound prepared in Example 214c and 106 mg of 4-chloro-3-(trifluoromethyl)benzoic acid in DMF.

¹H-NMR (400 MHz, DMSO-d₆): δ [ppm]= 3.30 (4H), 3.43 - 3.53 (4H), 3.95 - 4.05 (1H), 4.20 (4H), 4.23 - 4.31 (1H), 4.47 (1H), 4.71 (2H), 7.23 (1H), 7.67 (1H), 7.78 - 7.85 (1H), 7.86 - 7.93 (1H), 7.96 (1H), 8.22 (1H), 8.90 (1H).

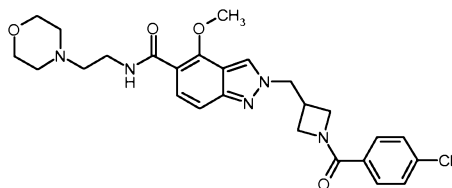
- 5 **Example 257:** 2-{[1-(4-chloro-2-fluorobenzoyl)azetidin-3-yl]methyl}-4-methoxy-N-(2-methoxyethyl)-2H-indazol-5-carboxamide



Analogously to Example 1, 20 mg of the title compound was obtained from 100 mg of the compound prepared in Example 214c and 82 mg of 4-chloro-2-fluorobenzoic acid in DMF.

- 10 ¹H-NMR (400 MHz, DMSO-d₆): δ [ppm]= 3.30 (4H), 3.42 - 3.51 (4H), 3.98 (2H), 4.14 (2H), 4.20 (3H), 4.69 (2H), 7.24 (1H), 7.38 (1H), 7.48 (1H), 7.56 (1H), 7.66 (1H), 8.15 - 8.30 (1H), 8.90 (1H).

- 15 **Example 258:** 2-{[1-(4-chlorobenzoyl)azetidin-3-yl]methyl}-4-methoxy-N-(2-morpholinoethyl)-2H-indazol-5-carboxamide

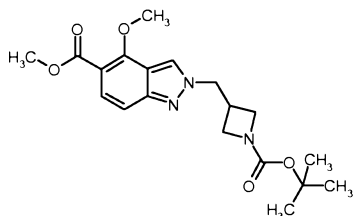


Analogously to Example 1b Version B, 67 mg of the title compound was obtained from 66 mg of the compound prepared in Example 258d and 32 mg of 2-morpholinoethylamine in DMF.

- 20 ¹H-NMR (400 MHz, DMSO-d₆): δ [ppm]= 2.44 (4H), 3.21 - 3.36 (3H), 3.42 (2H), 3.61 (4H), 3.88 - 4.04 (1H), 4.07 - 4.18 (1H), 4.23 (4H), 4.35 - 4.50 (1H), 4.70 (2H), 7.25 (1H), 7.41 - 7.56 (2H), 7.59 - 7.66 (2H), 7.70 (1H), 8.32 (1H), 8.91 (1H).

The starting material was prepared as follows:

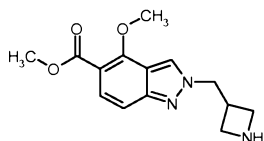
- 25 **Example 258a:** Methyl 2-{[1-(tert-butoxycarbonyl)azetidin-3-yl]methyl}-4-methoxy-2H-indazol-5-carboxylate



Analogously to Example 1e, 448 mg of the title compound was obtained from 750 mg of the compound prepared in Example 214a and 546 mg of methanol.

¹H-NMR (400 MHz, DMSO-d₆): δ [ppm]= 1.27 - 1.44 (9H), 3.01 - 3.22 (1H), 3.78 (5H), 3.85 - 3.99 (2H), 4.14 (3H), 4.64 (2H), 7.24 (1H), 7.51 (1H), 8.94 (1H).

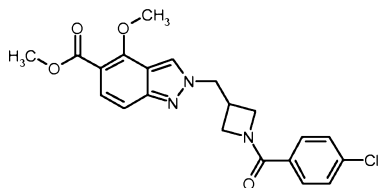
Example 258b: Methyl 2-(azetidin-3-ylmethyl)-4-methoxy-2H-indazol-5-carboxylate



800 mg of 258a were first placed in 40 ml acetone, treated with 40 ml of semiconcentrated hydrochloric acid, stirred until complete conversion and concentrated to dryness. Yield: 414 mg of the title compound.

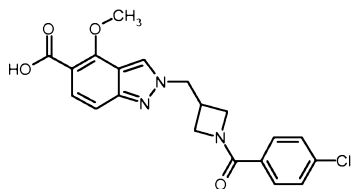
¹H-NMR (400 MHz, DMSO-d₆): δ [ppm]= 3.39 (1H), 3.79 (3H), 3.84 - 3.95 (2H), 3.96 - 4.07 (2H), 4.15 (3H), 4.72 (2H), 7.25 (1H), 7.52 (1H), 8.92 (1H).

Example 258c: Methyl 2-{[1-(4-chlorobenzoyl)azetidin-3-yl]methyl}-4-methoxy-2H-indazol-5-carboxylate



404 mg of 258b were first placed in 30 ml DCM at 0°C, treated with 0.21 ml of 4-chlorobenzoyl chloride and 0.75 ml of N-ethyldiisopropylamine and stirred at room temperature until complete conversion. For the work-up, the reaction solution was treated with saturated sodium hydrogen carbonate solution, extracted with DCM and the combined organic phases dried with sodium sulphate and concentrated to dryness. This yielded 608 mg of the title compound, which was used in the next step without further purification.

Example 258d: 2-{[1-(4-chlorobenzoyl)azetidin-3-yl]methyl}-4-methoxy-2H-indazol-5-carboxylic acid

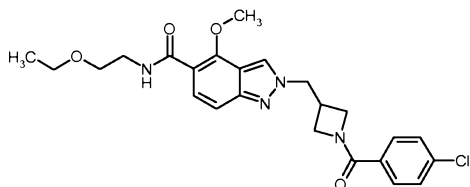


550 mg of 258c were first placed in 20 ml ethanol, treated with 20 ml of 2N sodium hydroxide and stirred until complete conversion. For the work-up, the reaction solution was adjusted to a pH of 3 with 1N hydrochloric acid, extracted with ethyl acetate, and the combined organic phases dried with sodium sulphate and concentrated to dryness. Yield after purification by column chromatography on silica gel with a hexane/ ethyl acetate gradient: 213 mg of the title compound.

¹H-NMR (400 MHz, DMSO-d₆): δ [ppm]= 3.27 (1H), 3.97 (1H), 4.07 - 4.17 (4H), 4.24 (1H), 4.42 (1H), 4.70 (2H), 7.22 (1H), 7.46 - 7.57 (3H), 7.59 - 7.68 (2H), 8.88 (1H), 12.61 (m, 1H).

10

Example 259: 2-{[1-(4-chlorobenzoyl)azetidin-3-yl]methyl}-N-(2-ethoxyethyl)-4-methoxy-2H-indazol-5-carboxamide



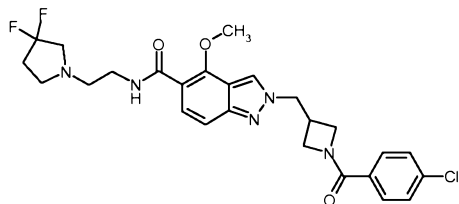
Analogously to Example 1b Version B, 30 mg of the title compound was obtained from 66 mg of the compound prepared in Example 258d and 22 mg of 2-ethoxyethylamine in DMF.

15

¹H-NMR (400 MHz, DMSO-d₆): δ [ppm]= 1.07 - 1.21 (3H), 3.30 (1H), 3.40 - 3.57 (6H), 3.90 - 4.02 (1H), 4.08 - 4.17 (1H), 4.21 (4H), 4.34 - 4.48 (1H), 4.70 (2H), 7.24 (1H), 7.45 - 7.57 (2H), 7.60 - 7.74 (3H), 8.24 (1H), 8.91 (1H).

20

Example 260: 2-{[1-(4-chlorobenzoyl)azetidin-3-yl]methyl}-N-[2-(3,3-difluoropyrrolidin-1-yl)ethyl]-4-methoxy-2H-indazol-5-carboxamide

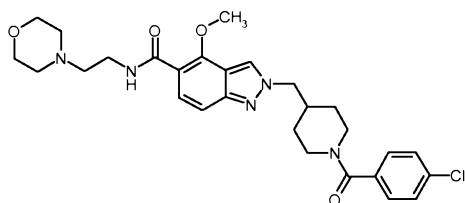


Analogously to Example 1b Version B, 58 mg of the title compound was obtained from 66 mg of the compound prepared in Example 258d and 37 mg of 2-(3,3-difluoropyrrolidin-1-yl)ethylamine in DMF.

25

¹H-NMR (400 MHz, DMSO-d₆): δ [ppm]= 2.27 (2H), 2.64 (2H), 2.77 (2H), 2.96 (2H), 3.22 - 3.30 (1H), 3.41 (2H), 3.92 - 4.01 (1H), 4.11 (1H), 4.19 (4H), 4.35 - 4.48 (1H), 4.70 (2H), 7.24 (1H), 7.51 (2H), 7.57 - 7.75 (3H), 8.32 (1H), 8.90 (1H).

- 5 **Example 261:** 2-{[1-(4-chlorobenzoyl)piperidin-4-yl]methyl}-4-methoxy-N-(2-morpholinoethyl)-2H-indazol-5-carboxamide



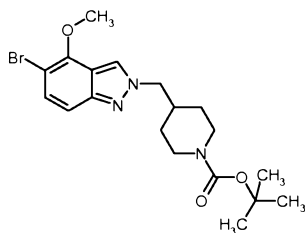
Analogously to Example 1b, Version B, 77 mg of the title compound was obtained from 100 mg of the compound prepared in Example 261e and 46 mg of 2-morpholinoethylamine in DMF.

- 10 ¹H-NMR (400 MHz, DMSO-d₆): δ [ppm]= 1.11 - 1.33 (2H), 1.35 - 1.75 (2H), 2.18 - 2.39 (1H), 2.65 - 2.88 (2H), 2.90 - 3.23 (3H), 3.41 - 3.82 (8H), 3.84 - 4.12 (2H), 4.24 (3H), 4.35 (3H), 7.26 (1H), 7.33 - 7.44 (2H), 7.46 - 7.58 (2H), 7.69 (1H), 8.27 - 8.52 (1H), 8.87 (1H).

The starting material was prepared as follows:

15

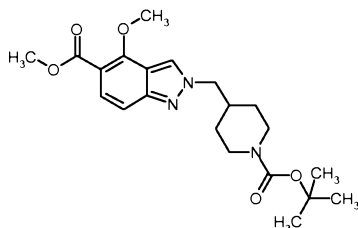
- Example 261a:** Tert-butyl 4-[(5-bromo-4-methoxy-2H-indazol-2-yl)methyl]piperidin-1-carboxylate



- 20 Analogously to Example 1c, 5.57 g of the title compound was obtained from 9.65 g of 5-bromo-4-methoxy-1H-indazole and 23.55 g of tert-butyl-4-[(tosyloxy)methyl]piperidin-1-carboxylate.

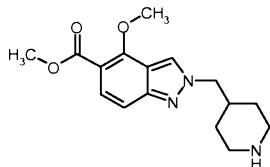
¹H-NMR (400 MHz, chloroform-d): δ [ppm]= 1.16 - 1.31 (2H), 1.39 - 1.49 (9H), 1.52 - 1.64 (2H), 2.16 - 2.36 (1H), 2.56 - 2.80 (2H), 4.11 (5H), 4.26 (2H), 7.28 - 7.33 (1H), 7.34 - 7.39 (1H), 7.99 (1H).

- 25 **Example 261b:** Methyl 2-{[1-(tert-butoxycarbonyl)piperidin-4-yl]methyl}-4-methoxy-2H-indazol-5-carboxylate



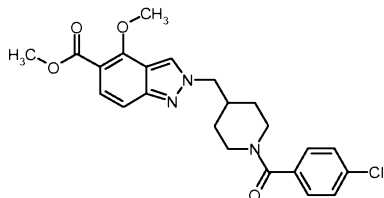
Analogously to Example 1e, 1.1 g of the title compound was obtained from 2.4 g of the compound prepared in Example 261a and 1.63 g of methanol.

5 **Example 261c:** Methyl 4-methoxy-2-(4-piperidylmethyl)-2H-indazol-5-carboxylate



Analogously to Example 258b, from 1.1 g of the compound prepared in Example 261b 1.1 g of the title compound was obtained, which was reacted in the next step without further purification.

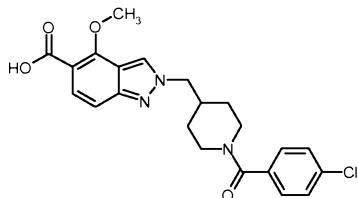
10 **Example 261d:** Methyl 2-{[1-(4-chlorobenzoyl)piperidin-4-yl]methyl}-4-methoxy-2H-indazol-5-carboxylate



Analogously to Example 258c, from 1.1 g of the compound prepared in Example 261c and 762 mg of 4-chlorobenzoyl chloride, 980 mg of the title compound was obtained after purification by column chromatography on silica gel with a hexane/ethyl acetate gradient.

¹H-NMR (300 MHz, DMSO-d₆): δ [ppm]= 1.24 (2H), 1.36 - 1.76 (2H), 2.18 - 2.40 (1H), 2.65 - 2.88 (1H), 2.91 - 3.12 (1H), 3.42 - 3.67 (1H), 3.78 (3H), 4.05 - 4.21 (3H), 4.35 (3H), 7.24 (1H), 7.34 - 7.43 (2H), 7.45 - 7.56 (3H), 8.86 (1H).

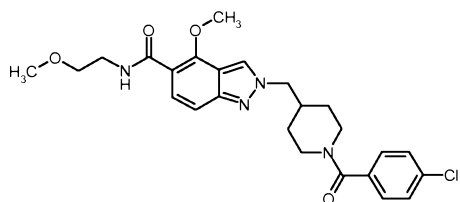
20 **Example 261e:** 2-{[1-(4-chlorobenzoyl)piperidin-4-yl]methyl}-4-methoxy-2H-indazol-5-carboxylic acid



Analogously to Example 258d, 547 mg of the title compound was obtained from 980 mg of the compound prepared in Example 261d.

¹H-NMR (400 MHz, DMSO-d₆): δ [ppm]= 1.12 - 1.35 (2H), 1.35 - 1.73 (2H), 2.21 - 2.40 (1H), 2.63 - 3.12 (2H), 3.14 - 3.70 (3H), 4.34 (3H), 5.76 (s, 1H), 7.21 (1H), 7.32 - 7.45 (2H), 7.46 - 7.58 (3H), 8.76 (1H).

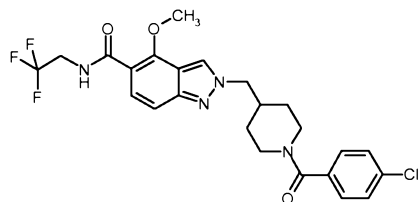
Example 262: 2-{[1-(4-chlorobenzoyl)piperidin-4-yl]methyl}-4-methoxy-N-(2-methoxyethyl)-2H-indazol-5-carboxamide



Analogously to Example 1b, Version B, 50 mg of the title compound was obtained from 100 mg of the compound prepared in Example 261e and 26 mg of 2-methoxyethylamine in DMF.

¹H-NMR (400 MHz, DMSO-d₆): δ [ppm]= 1.11 - 1.35 (2H), 1.35 - 1.72 (2H), 2.21 - 2.39 (1H), 2.69 - 2.88 (1H), 2.92 - 3.11 (1H), 3.30 (s, 3H), 3.38 - 3.64 (5H), 4.20 (3H), 4.34 (3H), 7.25 (1H), 7.34 - 7.43 (2H), 7.45 - 7.57 (2H), 7.66 (1H), 8.22 (1H), 8.83 (1H).

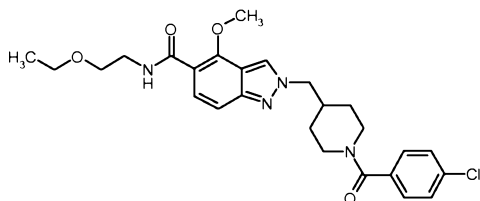
Example 263: 2-{[1-(4-chlorobenzoyl)piperidin-4-yl]methyl}-4-methoxy-N-(2,2,2-trifluoroethyl)-2H-indazol-5-carboxamide



Analogously to Example 1b, Version B, 68 mg of the title compound was obtained from 100 mg of the compound prepared in Example 261e and 35 mg of 2,2,2-trifluoroethylamine in DMF.

¹H-NMR (400 MHz, DMSO-d₆): δ [ppm]= 1.09 - 1.35 (2H), 1.37 - 1.75 (2H), 2.21 - 2.41 (1H), 2.69 - 2.88 (1H), 2.92 - 3.19 (1H), 3.42 - 3.69 (1H), 4.13 (2H), 4.23 (3H), 4.35 (3H), 7.26 (1H), 7.34 - 7.45 (2H), 7.46 - 7.55 (2H), 7.61 (1H), 8.59 (1H), 8.88 (1H).

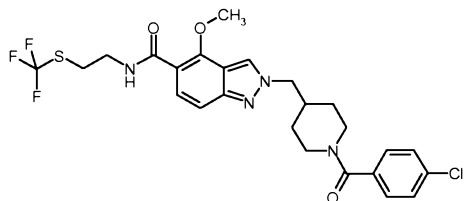
Example 264: 2-{[1-(4-chlorobenzoyl)piperidin-4-yl]methyl}-N-(2-ethoxyethyl)-4-methoxy-2H-indazol-5-carboxamide



Analogously to Example 1b, Version B, 60 mg of the title compound was obtained from 100 mg of the compound prepared in Example 261e and 31 mg of 2-ethoxyethylamine in DMF.

¹H-NMR (400 MHz, DMSO-d₆): δ [ppm]= 1.14 (3H), 1.19 - 1.35 (2H), 1.37 - 1.72 (2H), 2.23 - 2.43 (1H), 2.68 - 2.88 (1H), 2.91 - 3.15 (1H), 3.41 - 3.56 (m, 7H), 4.20 (3H), 4.34 (3H), 7.25 (1H), 7.33 - 7.45 (2H), 7.46 - 7.55 (2H), 7.67 (1H), 8.23 (1H), 8.83 (1H).

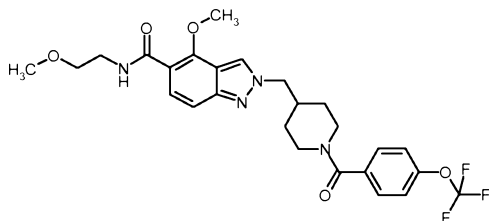
Example 265: 2-([1-(4-chlorobenzoyl)piperidin-4-yl]methyl)-4-methoxy-N-{2-[(trifluoromethyl)sulphanyl]ethyl}-2H-indazol-5-carboxamide



Analogously to Example 1b, Version B, 68 mg of the title compound was obtained from 100 mg of the compound prepared in Example 261e and 51 mg of 2-[(trifluoromethyl)sulphanyl]ethylamine in DMF.

¹H-NMR (400 MHz, DMSO-d₆): δ [ppm]= 1.14 - 1.35 (2H), 1.36 - 1.72 (2H), 2.18 - 2.40 (1H), 2.66 - 2.87 (1H), 2.91 - 3.11 (1H), 3.21 (2H), 3.42 - 3.70 (3H), 4.22 (3H), 4.34 (3H), 7.24 (1H), 7.32 - 7.45 (2H), 7.46 - 7.55 (2H), 7.64 (1H), 8.45 (1H), 8.85 (1H).

Example 266: 4-methoxy-N-(2-methoxyethyl)-2-([1-[4-(trifluoromethoxy)benzoyl]piperidin-4-yl]methyl)-2H-indazol-5-carboxamide

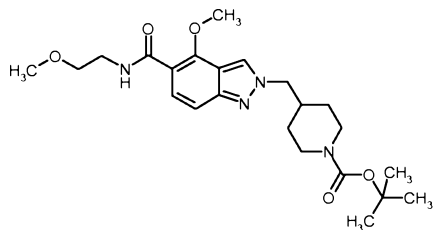


Analogously to Example 1b, Version B, 84 mg of the title compound was obtained from 100 mg of the compound prepared in Example 266b and 89 mg of 4-(trifluoromethoxy)benzoic acid in DMF.

LC-MS: R_t = 1.16 min, MS (ES⁺): m/z = 435 (M+H)⁺.

The starting material was prepared as follows:

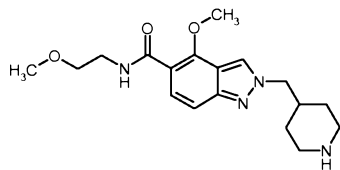
Example 266a: Tert-butyl 4-({4-methoxy-5-[N-(2-methoxyethyl)carbamoyl]-2H-indazol-2-yl}methyl)piperidin-1-carboxylate



- 3 g of compound 261a, 1.59 g of 2-methoxyethylamine, 1.87 g of molybdenum hexacarbonyl, 204 mg of tri-tert-butylphosphine tetrafluoroborate and 316 mg of palladium(II) acetate were first suspended in 100 ml 1,4-dioxan. Then 2.25 g of sodium carbonate and a few drops of water were added, and the mixture stirred for 25 mins at 140°C and 150 watts in the microwave. The reaction mixture was concentrated and the residue was purified by column chromatography on silica gel using a hexane/ ethyl acetate/ methanol gradient. Yield: 1.3 g of the title compound.

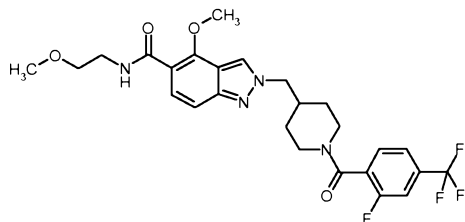
¹H-NMR (300 MHz, DMSO-d₆): δ [ppm]= 0.99 - 1.22 (2H), 1.29 - 1.55 (11H), 2.03 - 2.33 (1H), 2.60 - 2.83 (2H), 3.28 - 3.31 (3H), 3.43 - 3.52 (4H), 3.82 - 4.03 (2H), 4.20 (3H), 4.31 (2H), 7.25 (1H), 7.66 (1H), 8.21 (1H), 8.82 (1H).

- Example 266b:** 4-methoxy-N-(2-methoxyethyl)-2-(4-piperidylmethyl)-2H-indazol-5-carboxamide



- Analogously to Example 258b, from 1.3 g of the compound prepared in Example 266a, 1.48 g of the title compound was obtained, which was used in the subsequent reactions without further purification.

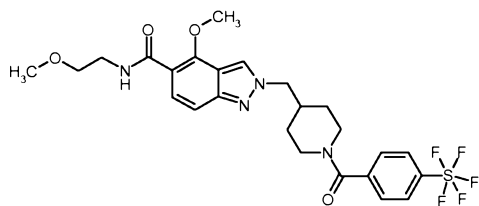
Example 267: 2-({1-[2-fluoro-4-(trifluoromethyl)benzoyl]piperidin-4-yl}methyl)-4-methoxy-N-(2-methoxyethyl)-2H-indazol-5-carboxamide



Analogously to Example 1b, Version B, 20 mg of the title compound was obtained from 100 mg of the compound prepared in Example 266b and 90 mg of 2-fluoro-4-(trifluoromethyl)benzoic acid in DMF.

¹H-NMR (400 MHz, DMSO-d₆): δ [ppm]= 1.05 - 1.36 (2H), 1.39 - 1.53 (1H), 1.56 - 1.72 (1H),
5 2.21 - 2.40 (1H), 2.75 - 2.90 (1H), 2.92 - 3.15 (1H), 3.27 - 3.35 (4H), 3.44 - 3.53 (4H), 4.20 (3H), 4.27 - 4.43 (2H), 4.44 - 4.58 (1H), 7.25 (1H), 7.54 - 7.74 (3H), 7.81 (1H), 8.20 (1H), 8.83 (1H).

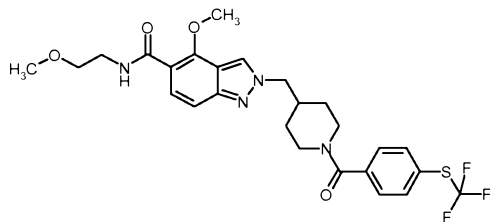
Example 268: 4-methoxy-N-(2-methoxyethyl)-2-({ 1-[4-(pentafluoro-λ⁶-sulphonyl)benzoyl]-
10 piperidin-4-yl} methyl)-2H-indazol-5-carboxamide



Analogously to Example 1b, Version B, 39 mg of the title compound was obtained from 100 mg of the compound prepared in Example 266b and 107 mg of 4-(pentafluoro-λ⁶-sulphonyl)benzoic acid in DMF.

15 LC-MS: R_t = 1.18 min, MS (ES⁺): m/z = 577 (M+H)⁺.

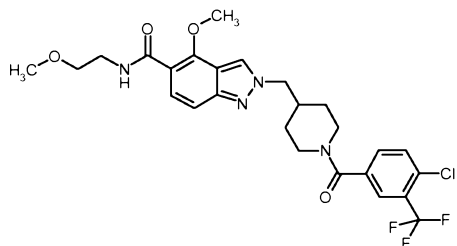
Example 269: 4-methoxy-N-(2-methoxyethyl)-2-[(1-{4-[(trifluoromethyl)sulphonyl]benzoyl}-
piperidin-4-yl)methyl]-2H-indazol-5-carboxamide



20 Analogously to Example 1b, Version B, 25 mg of the title compound was obtained from 100 mg of the compound prepared in Example 266b and 96 mg of 4-[(trifluoromethyl)sulphonyl]benzoic acid in DMF.

¹H-NMR (400 MHz, DMSO-d₆): δ [ppm]= 1.09 - 1.37 (2H), 1.38 - 1.72 (2H), 2.23 - 2.39 (1H),
2.70 - 2.93 (1H), 2.95 - 3.16 (1H), 3.30 (3H), 3.40 - 3.55 (5H), 4.20 (3H), 4.35 (d, 3H), 7.25
25 (1H), 7.46 - 7.58 (2H), 7.66 (1H), 7.78 (2H), 8.20 (1H), 8.82 (1H).

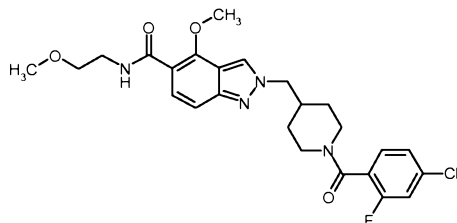
Example 270: 2-({ 1-[4-chloro-3-(trifluoromethyl)benzoyl]piperidin-4-yl} methyl)-4-methoxy-N-(2-methoxyethyl)-2H-indazol-5-carboxamide



Analogously to Example 1b, Version B, 27 mg of the title compound was obtained from 100 mg of the compound prepared in Example 266b and 97 mg of 4-chloro-3-(trifluoromethyl)benzoic acid in DMF.

- 5 ¹H-NMR (400 MHz, DMSO-d₆): δ [ppm]= 1.15 - 1.37 (2H), 1.38 - 1.73 (2H), 2.14 - 2.41 (1H), 2.70 - 2.88 (1H), 2.95 - 3.18 (1H), 3.30 (3H), 3.39 - 3.62 (5H), 4.20 (3H), 4.35 (3H), 7.25 (1H), 7.59 - 7.73 (2H), 7.75 - 7.86 (2H), 8.20 (1H), 8.82 (1H).

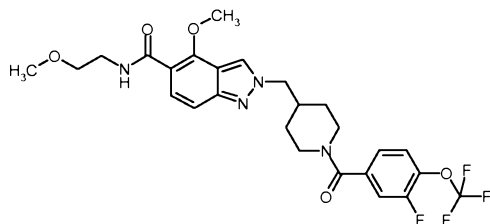
- 10 **Example 271:** 2-([1-(4-chloro-2-fluorobenzoyl)piperidin-4-yl]methyl)-4-methoxy-N-(2-methoxyethyl)-2H-indazol-5-carboxamide



Analogously to Example 1b, Version B, 17 mg of the title compound was obtained from 100 mg of the compound prepared in Example 266b and 75 mg of 4-chloro-2-fluorobenzoic acid in DMF.

- 15 ¹H-NMR (400 MHz, DMSO-d₆): δ [ppm]= 1.08 - 1.33 (2H), 1.37 - 1.52 (1H), 1.53 - 1.70 (1H), 2.20 - 2.42 (1H), 2.72 - 2.88 (1H), 2.94 - 3.12 (1H), 3.30 (3H), 3.37 (1H), 3.43 - 3.51 (4H), 4.20 (3H), 4.34 (2H), 4.42 - 4.55 (1H), 7.25 (1H), 7.31 - 7.48 (2H), 7.55 (1H), 7.66 (1H), 8.20 (1H), 8.83 (1H).

- 20 **Example 272:** 2-([1-[3-fluoro-4-(trifluoromethoxy)benzoyl]piperidin-4-yl]methyl)-4-methoxy-N-(2-methoxyethyl)-2H-indazol-5-carboxamide

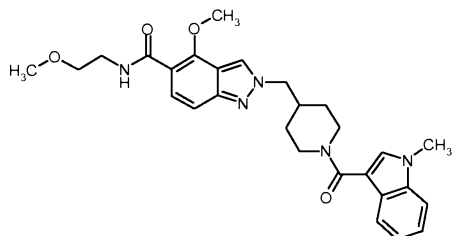


Analogously to Example 1b, Version B, 12 mg of the title compound was obtained from 100 mg of the compound prepared in Example 266b and 97 mg of 3-fluoro-4-(trifluoromethoxy)benzoic acid in DMF.

LC-MS: $R_t = 1.18$ min, MS (ES⁺): $m/z = 553$ (M+H)⁺.

5

Example 273: 4-methoxy-N-(2-methoxyethyl)-2-({1-[(1-methyl-1H-indol-3-yl)carbonyl]-piperidin-4-yl} methyl)-2H-indazol-5-carboxamide

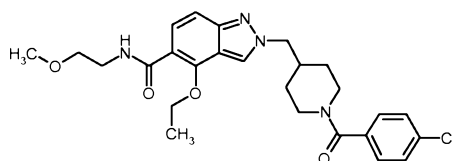


Analogously to Example 1b, Version B, 19 mg of the title compound was obtained from 100 mg of the compound prepared in Example 266b and 76 mg of 1-methyl-1H-indol-3-carboxylic acid in DMF.

¹H-NMR (300 MHz, DMSO-d₆): δ [ppm] = 1.11 - 1.40 (2H), 1.54 (2H), 2.18 - 2.42 (1H), 2.93 (2H), 3.30 (3H), 3.40 - 3.45 (4H), 3.70 - 3.91 (3H), 4.12 - 4.48 (7H), 7.00 - 7.34 (3H), 7.48 (1H), 7.66 (3H), 8.22 (1H), 8.84 (1H).

15

Example 274: 2-({1-[(4-chlorobenzoyl)piperidin-4-yl]methyl}-4-ethoxy-N-(2-methoxyethyl)-2H-indazol-5-carboxamide

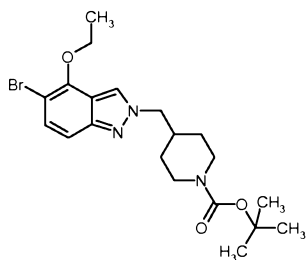


Analogously to Example 1b, Version B, 47 mg of the title compound was obtained from 110 mg of the compound prepared in Example 274c and 72 mg of 4-chlorobenzoic acid in DMF.

¹H-NMR (400 MHz, DMSO-d₆): δ [ppm] = 1.10 - 1.33 (2H), 1.44 (5H), 2.20 - 2.39 (1H), 2.68 - 2.85 (1H), 2.92 - 3.12 (1H), 3.32 (7H), 3.51 - 3.62 (1H), 4.20 - 4.59 (5H), 7.26 (1H), 7.33 - 7.44 (2H), 7.47 - 7.55 (2H), 7.70 (1H), 8.30 (1H), 8.79 (1H).

The starting material was prepared as follows:

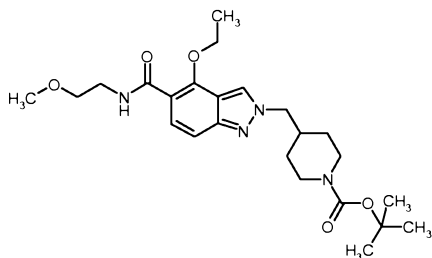
Example 274a: Tert-butyl 4-[(5-bromo-4-ethoxy-2H-indazol-2-yl)methyl]piperidin-1-carboxylate



Analogously to Example 74c, 285 mg of the title compound was obtained from 484 mg of 5-bromo-4-ethoxy-1H-indazole and 1.11 g of tert-butyl 4-[(5-bromo-4-ethoxy-2H-indazol-2-yl)-methyl]piperidin-1-carboxylate.

- 5 ¹H-NMR (400 MHz, chloroform-d): δ [ppm]= 1.13 - 1.34 (2H), 1.46 (9H), 1.49 (3H), 1.56 - 1.63 (2H), 2.16 - 2.37 (1H), 2.54 - 2.80 (2H), 4.02 - 4.21 (2H), 4.26 (2H), 4.33 (2H), 7.28 - 7.43 (2H), 7.93 (1H).

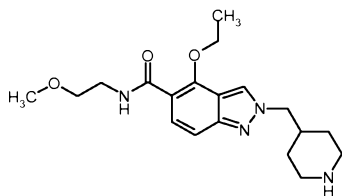
Example 274b: Tert-butyl 4-({4-ethoxy-5-[N-(2-methoxyethyl)carbamoyl]-2H-indazol-2-yl}-methyl)piperidin-1-carboxylate



Analogously to Example 266a, 235 mg of the title compound was obtained from 285 mg of the compound prepared in Example 274a and 146 mg of 2-methoxyethylamine.

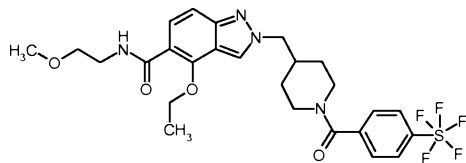
- 15 ¹H-NMR (300 MHz, DMSO-d₆): δ [ppm]= 0.97 - 1.22 (2H), 1.29 - 1.56 (14H), 2.06 - 2.31 (1H), 2.59 - 2.86 (2H), 3.33 (3H), 3.49 (4H), 3.80 - 4.02 (2H), 4.30 (2H), 4.51 (2H), 7.26 (1H), 7.71 (1H), 8.31 (1H), 8.79 (1H).

Example 274c: 4-ethoxy-N-(2-methoxyethyl)-2-(4-piperidylmethyl)-2H-indazol-5-carboxamide



- 20 Analogously to Example 258b, from 235 mg of the compound prepared in Example 274b, 237 mg of the title compound was obtained, which was reacted in the next step without further purification.

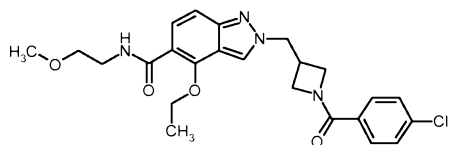
Example 275: 4-ethoxy-N-(2-methoxyethyl)-2-({1-[4-(pentafluoro- λ^6 -sulphonyl)benzoyl]-piperidin-4-yl} methyl)-2H-indazol-5-carboxamide



Analogously to Example 1b, Version B, 30 mg of the title compound was obtained from 110 mg of the compound prepared in Example 274c and 113 mg of 4-(pentafluoro- λ^6 -sulphonyl)benzoic acid in DMF.

$^1\text{H-NMR}$ (400 MHz, DMSO-d_6): δ [ppm]= 1.10 - 1.36 (2H), 1.44 (4H), 1.54 - 1.69 (1H), 2.22 - 2.40 (1H), 2.70 - 2.87 (1H), 2.93 - 3.13 (1H), 3.30 (3H), 3.48 (5H), 4.34 (2H), 4.41 - 4.63 (3H), 7.26 (1H), 7.59 (2H), 7.70 (1H), 7.98 (2H), 8.30 (1H), 8.79 (1H).

Example 276: 2- { [1-(4-chlorobenzoyl)azetidin-3-yl]methyl} -4-ethoxy-N-(2-methoxyethyl)-2H-indazol-5-carboxamide

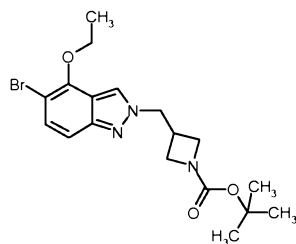


Analogously to Example 1b, Version B, 25 mg of the title compound was obtained from 50 mg of the compound prepared in Example 276c and 35 mg of 4-chlorobenzoic acid in DMF.

$^1\text{H-NMR}$ (400 MHz, DMSO-d_6): δ [ppm]= 1.44 (3H), 3.21 - 3.29 (1H), 3.31 (3H), 3.49 (4H), 3.96 (1H), 4.06 - 4.30 (2H), 4.34 - 4.59 (3H), 4.69 (2H), 7.25 (1H), 7.51 (2H), 7.62 (2H), 7.71 (1H), 8.30 (1H), 8.86 (1H).

The starting material was prepared as follows:

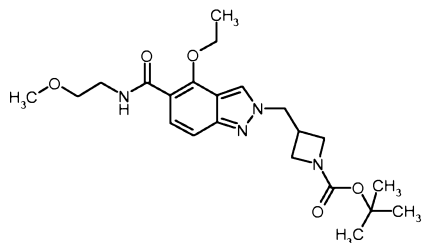
Example 276a: Tert-butyl 3-[(5-bromo-4-ethoxy-2H-indazol-2-yl)methyl]azetidin-1-carboxylate



Analogously to Example 74c, 204 mg of the title compound was obtained from 500 mg of 5-bromo-4-ethoxy-1H-indazole and 1.06 g of tert-butyl-3-[(tosyloxy)methyl]azetidin-1-carboxylate.

¹H-NMR (600 MHz, chloroform-d): δ [ppm]= 1.44 (9H), 1.49 (3H), 3.14 - 3.30 (1H), 3.72 - 3.83 (2H), 4.07 (2H), 4.33 (2H), 4.59 (2H), 7.29 (1H), 7.37 (1H), 7.98 (1H).

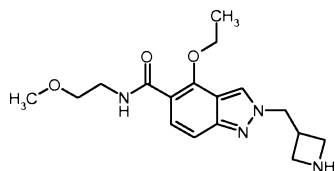
Example 276b: Tert-butyl 3-(4-ethoxy-5-[N-(2-methoxyethyl)carbamoyl]-2H-indazol-2-yl)-methylazetidin-1-carboxylate



Analogously to Example 266a, from 191 mg of the compound prepared in Example 276a and 105 mg of 2-methoxyethylamine, 121 mg of the title compound was obtained, which was reacted in the next step without further purification.

10

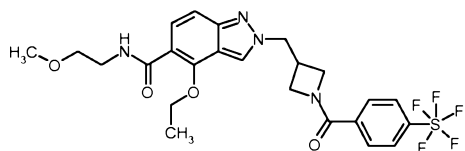
Example 276c: 2-(azetidin-3-ylmethyl)-4-ethoxy-N-(2-methoxyethyl)-2H-indazol-5-carboxamide



Analogously to Example 258b, from 121 mg of the compound prepared in Example 276b, 93 mg of the title compound was obtained, which was reacted in the next step without further purification.

15

Example 277: 4-ethoxy-N-(2-methoxyethyl)-2-(1-[4-(pentafluoro- λ^6 -sulphonyl)benzoyl]-azetidin-3-yl)methyl)-2H-indazol-5-carboxamide



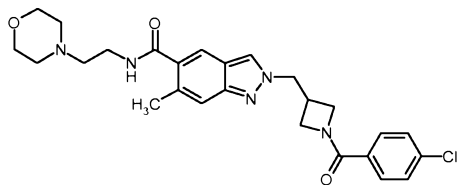
20

Analogously to Example 1b, Version B, 35 mg of the title compound was obtained from 50 mg of 276c and 56 mg of 4-(pentafluoro- λ^6 -sulphonyl)benzoic acid in DMF.

¹H-NMR (400 MHz, DMSO-d₆): δ [ppm]= 1.37 - 1.50 (3H), 3.26 (1H), 3.31 (3H), 3.43 - 3.57 (4H), 3.92 - 4.05 (1H), 4.10 - 4.31 (2H), 4.38 - 4.57 (3H), 4.70 (2H), 7.25 (1H), 7.66 - 7.87 (3H), 7.98 (2H), 8.30 (1H), 8.86 (1H).

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Example 278: 2-{[1-(4-chlorobenzoyl)azetidin-3-yl]methyl}-6-methyl-N-(2-morpholinoethyl)-2H-indazol-5-carboxamide

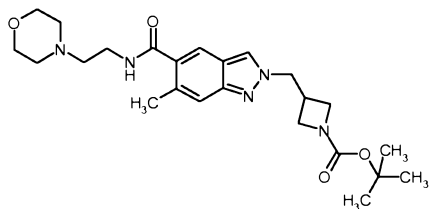


Analogously to Example 1b, Version B, 23 mg of the title compound was obtained from 100 mg of 278b and 66 mg of 4-chlorobenzoic acid in DMF.

¹H-NMR (400 MHz, DMSO-d₆): δ [ppm]= 2.42 (s, 3H), 3.09 - 3.27 (m, 3H), 3.29 - 3.33 (2H), 3.49 - 3.73 (m, 6H), 3.84 - 3.96 (m, 1H), 3.97 - 4.15 (m, 3H), 4.16 - 4.27 (m, 1H), 4.31 - 4.45 (m, 1H), 4.62 - 4.80 (m, 2H), 7.36 - 7.47 (1H), 7.48 - 7.57 (2H), 7.58 - 7.70 (2H), 7.77 - 7.89 (1H), 8.41 - 8.58 (2H).

The starting material was prepared as follows:

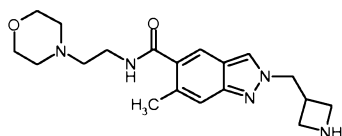
Example 278a: Tert-butyl 3-({6-methyl-5-[N-(2-morpholinoethyl)carbamoyl]-2H-indazol-2-yl}methyl)azetidin-1-carboxylate



Analogously to Example 1b, Version B, 418 mg of the title compound was obtained from 410 mg of 178c and 232 mg of 2-morpholinoethylamine in DMF.

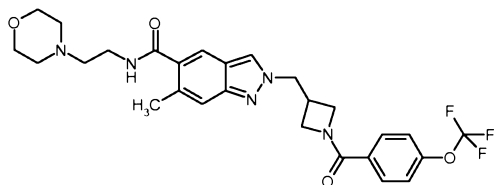
¹H-NMR (400 MHz, DMSO-d₆): δ [ppm]= 1.36 (9H), 2.39 (3H), 2.44 (4H), 2.95 - 3.17 (1H), 3.24 - 3.43 (4H), 3.58 (4H), 3.64 - 3.79 (2H), 3.88 (2H), 4.62 (2H), 7.39 (1H), 7.68 (1H), 8.04 - 8.22 (1H), 8.45 (1H).

Example 278b: 2-(azetidin-3-ylmethyl)-6-methyl-N-(2-morpholinoethyl)-2H-indazol-5-carboxamide



Analogously to Example 258b, from 400 mg of the compound prepared in Example 278a, 372 mg of the title compound was obtained, which was reacted in the next step without further purification.

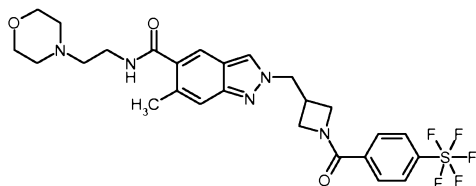
Example 279: 6-methyl-N-(2-morpholinoethyl)-2-(1-[4-(trifluoromethoxy)benzoyl]azetidin-3-yl)methyl)-2H-indazol-5-carboxamide



Analogously to Example 1b, Version B, 44 mg of the title compound was obtained from 100 mg of 278b and 86 mg of 4-(trifluoromethoxy)benzoic acid in DMF.

¹H-NMR (300 MHz, DMSO-d₆): δ [ppm] = 2.42 (3H), 3.07 - 3.27 (5H), 3.48 - 3.74 (6H), 3.85 - 4.17 (4H), 4.18 - 4.29 (1H), 4.33 - 4.48 (1H), 4.61 - 4.82 (2H), 7.30 - 7.54 (3H), 7.68 - 7.78 (2H), 7.79 - 7.88 (1H), 8.43 - 8.60 (2H).

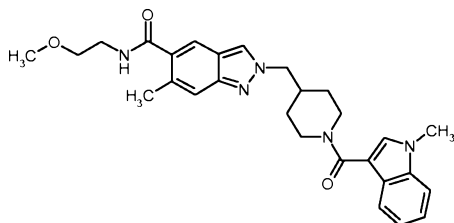
Example 280: 6-methyl-N-(2-morpholinoethyl)-2-(1-[4-(pentafluoro-λ⁶-sulphonyl)benzoyl]azetidin-3-yl)methyl)-2H-indazol-5-carboxamide



Analogously to Example 1b, Version B, 37 mg of the title compound was obtained from 100 mg of 278b and 104 mg of 4-(pentafluoro-λ⁶-sulphonyl)benzoic acid in DMF.

¹H-NMR (300 MHz, DMSO-d₆): δ [ppm] = 2.42 (3H), 3.06 - 3.27 (5H), 3.47 - 3.75 (6H), 3.87 - 4.08 (3H), 4.09 - 4.29 (2H), 4.33 - 4.49 (1H), 4.61 - 4.80 (2H), 7.34 - 7.52 (1H), 7.71 - 7.88 (3H), 7.92 - 8.07 (2H), 8.39 - 8.59 (2H).

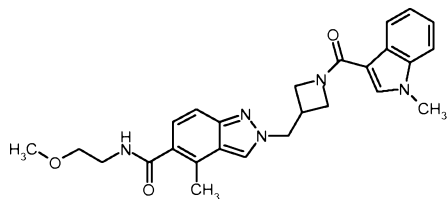
Example 281: N-(2-methoxyethyl)-6-methyl-2-(1-[(1-methyl-1H-indol-3-yl)carbonyl]piperidin-4-yl)methyl)-2H-indazol-5-carboxamide



Analogously to Example 1b, Version B, 4.2 mg of the title compound was obtained from 150 mg of 205c and 119 mg of 1-methyl-1H-indol-3-carboxylic acid in DMF.

LC-MS: R_t = 1.01 min, MS (ES⁺): m/z = 489 (M+H)⁺.

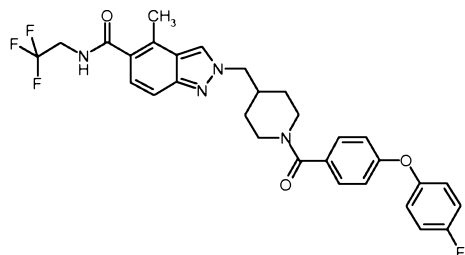
Example 282: N-(2-methoxyethyl)-4-methyl-2-($\{1-[(1\text{-methyl-1H-indol-3-yl})\text{carbonyl}]azetidin-3\text{-yl}\}$ methyl)-2H-indazol-5-carboxamide



Analogously to Example 1b, Version B, 35 mg of the title compound was obtained from 175 mg of 117c and 122 mg of 1-methyl-1H-indol-3-carboxylic acid in DMF.

LC-MS: $R_t = 0.95$ min, MS (ES⁺): $m/z = 460$ (M+H)⁺.

Example 283: 2-($\{1-[4-(4\text{-fluorophenoxy})\text{benzoyl}]piperidin-4\text{-yl}\}$ methyl)-4-methyl-N-(2,2,2-trifluoroethyl)-2H-indazol-5-carboxamide



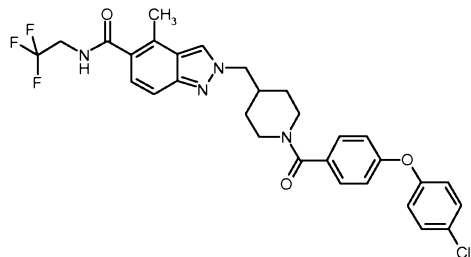
10

Analogously to Example 1b, Version B, 267 mg of the title compound was obtained from 250 mg of 71a and 246 mg of 4-(4-fluorophenoxy)benzoic acid in DMF.

¹H-NMR (400 MHz, DMSO-d₆): δ [ppm] = 1.16 - 1.32 (2H), 1.35 - 1.69 (2H), 2.20 - 2.39 (1H), 2.54 (3H), 2.70 - 3.15 (2H), 3.50 - 3.83 (1H), 4.07 (2H), 4.36 (3H), 6.91 - 7.05 (2H), 7.08 - 7.31 (5H), 7.34 - 7.42 (2H), 7.46 (1H), 8.56 (1H), 8.83 (1H).

15

Example 284: 2-($\{1-[4-(4\text{-chlorophenoxy})\text{benzoyl}]piperidin-4\text{-yl}\}$ methyl)-4-methyl-N-(2,2,2-trifluoroethyl)-2H-indazol-5-carboxamide

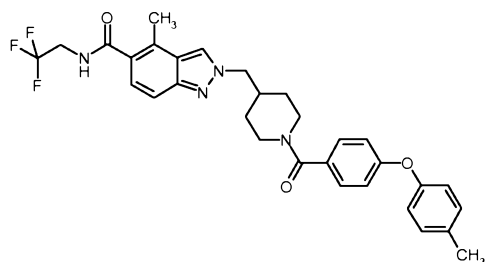


Analogously to Example 1b, Version B, 55 mg of the title compound was obtained from 100 mg of 71a and 105 mg of 4-(4-chlorophenoxy)benzoic acid in DMF.

¹H-NMR (400 MHz, DMSO-d₆): δ [ppm] = 1.23 (2H), 1.34 - 1.72 (2H), 2.21 - 2.41 (1H), 2.54 (3H), 2.67 - 3.20 (2H), 3.51 - 3.83 (1H), 4.07 (2H), 4.36 (3H), 6.92 - 7.15 (4H), 7.20 (1H), 7.35 - 7.53 (5H), 8.56 (1H), 8.84 (1H).

20

Example 285: 4-methyl-2-({1-[4-(4-methylphenoxy)benzoyl]piperidin-4-yl}methyl)-N-(2,2,2-trifluoroethyl)-2H-indazol-5-carboxamide

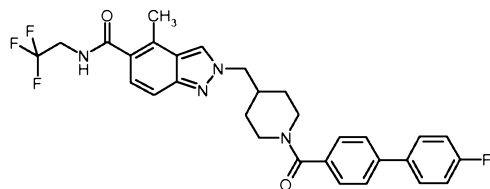


5 Analogously to Example 1b, Version B, 60 mg of the title compound was obtained from 100 mg of 71a and 97 mg of 4-(4-methylphenoxy)benzoic acid in DMF.

¹H-NMR (400 MHz, DMSO-d₆): δ [ppm]= 1.23 (2H), 1.36 - 1.71 (2H), 2.30 (4H), 2.54 (3H), 2.64 - 3.17 (2H), 3.49 - 3.82 (1H), 4.07 (2H), 4.36 (3H), 6.85 - 7.04 (4H), 7.21 (3H), 7.29 - 7.41 (2H), 7.46 (1H), 8.56 (1H), 8.84 (s1H).

10

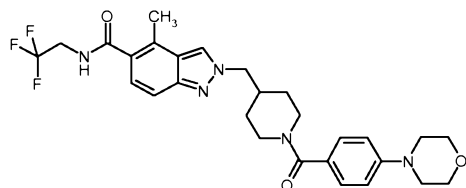
Example 286: 2-({1-[(4'-fluorobiphenyl-4-yl)carbonyl]piperidin-4-yl}methyl)-4-methyl-N-(2,2,2-trifluoroethyl)-2H-indazol-5-carboxamide



15 Analogously to Example 1b, Version B, 39 mg of the title compound was obtained from 100 mg of 71a and 92 mg of 4-(4-fluorophenyl)benzoic acid in DMF.

¹H-NMR (400 MHz, DMSO-d₆): δ [ppm]= 1.14 - 1.36 (2H), 1.36 - 1.73 (2H), 2.18 - 2.41 (1H), 2.54 (3H), 2.70 - 3.16 (2H), 3.51 - 3.82 (1H), 4.07 (2H), 4.38 (3H), 7.21 (1H), 7.31 (2H), 7.40 - 7.53 (3H), 7.64 - 7.85 (4H), 8.56 (1H), 8.81 (1H).

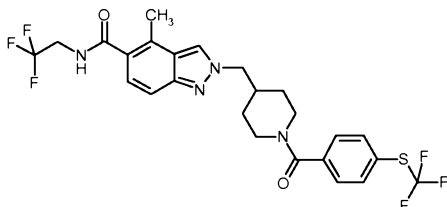
20 **Example 287:** 4-methyl-2-{{1-[4-(4-morpholinobenzoyl)piperidin-4-yl]methyl}-N-(2,2,2-trifluoroethyl)-2H-indazol-5-carboxamide



Analogously to Example 1b, Version B, 45 mg of the title compound was obtained from 100 mg of 71a and 88 mg of 4-morpholinobenzoic acid in DMF.

¹H-NMR (400 MHz, DMSO-d₆): δ [ppm]= 1.24 (2H), 1.40 - 1.60 (2H), 2.20 - 2.40 (1H), 2.54 (3H), 2.73 - 3.01 (2H), 3.38 (4H), 3.64 - 3.81 (5H), 4.07 (3H), 4.36 (2H), 6.94 (2H), 7.16 - 7.30 (3H), 7.46 (1H), 8.55 (1H), 8.81 (1H).

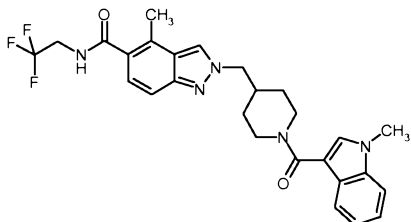
- 5 **Example 288:** 4-methyl-N-(2,2,2-trifluoroethyl)-2-[(1-{4-[(trifluoromethyl)sulphonyl]benzoyl}-piperidin-4-yl)methyl]-2H-indazol-5-carboxamide



Analogously to Example 1b, Version B, 67 mg of the title compound was obtained from 100 mg of 71a and 94 mg of 4-[(trifluoromethyl)sulphonyl]benzoic acid in DMF.

- 10 ¹H-NMR (400 MHz, DMSO-d₆): δ [ppm]= 1.12 - 1.35 (2H), 1.35 - 1.70 (2H), 2.21 - 2.40 (1H), 2.54 (3H), 2.70 - 2.88 (1H), 2.94 - 3.12 (1H), 3.38 - 3.61 (1H), 4.07 (2H), 4.36 (3H), 7.21 (1H), 7.37 - 7.60 (3H), 7.78 (2H), 8.55 (1H), 8.81 (1H).

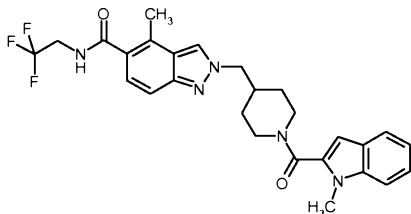
- 15 **Example 289:** 4-methyl-2-({1-[(1-methyl-1H-indol-3-yl)carbonyl]piperidin-4-yl} methyl)-N-(2,2,2-trifluoroethyl)-2H-indazol-5-carboxamide



Analogously to Example 1b, Version B, 43 mg of the title compound was obtained from 100 mg of 71a and 74 mg of 1-methyl-1H-indol-3-carboxylic acid in DMF.

- 20 ¹H-NMR (400 MHz, DMSO-d₆): δ [ppm]= 1.27 (2H), 1.52 (2H), 2.20 - 2.40 (1H), 2.54 (3H), 2.92 (2H), 3.82 (3H), 4.07 (2H), 4.27 (2H), 4.38 (2H), 6.92 - 7.33 (3H), 7.47 (2H), 7.61 - 7.76 (2H), 8.56 (1H), 8.81 (1H).

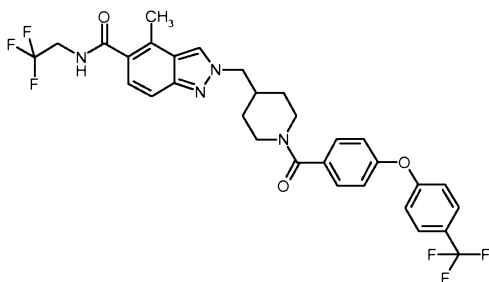
- Example 290:** 4-methyl-2-({1-[(1-methyl-1H-indol-2-yl)carbonyl]piperidin-4-yl} methyl)-N-(2,2,2-trifluoroethyl)-2H-indazol-5-carboxamide



Analogously to Example 1b, Version B, 51 mg of the title compound was obtained from 100 mg of 71a and 74 mg of 1-methyl-1H-indol-2-carboxylic acid in DMF.

¹H-NMR (400 MHz, DMSO-d₆): δ [ppm]= 1.17 - 1.41 (2H), 1.43 - 1.73 (2H), 2.19 - 2.43 (1H), 2.54 (3H), 2.74 - 3.23 (2H), 3.73 (3H), 4.07 (3H), 4.39 (3H), 6.60 (s, 1H), 7.03 - 7.14 (1H), 7.16 - 7.30 (2H), 7.48 (2H), 7.59 (1H), 8.57 (1H), 8.81 (1H).

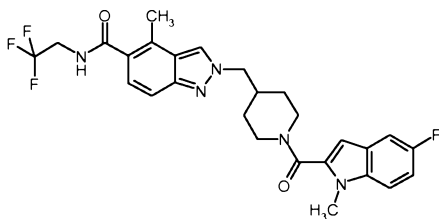
Example 291: 4-methyl-N-(2,2,2-trifluoroethyl)-2-[(1-{4-[4-(trifluoromethyl)phenoxy]benzoyl}piperidin-4-yl)methyl]-2H-indazol-5-carboxamide



Analogously to Example 1b, Version B, 156 mg of the title compound was obtained from 150 mg of 71a and 179 mg of 4-[4-(trifluoromethyl)phenoxy]benzoic acid in DMF.

¹H-NMR (400 MHz, DMSO-d₆): δ [ppm]= 1.23 (2H), 1.36 - 1.68 (2H), 2.20 - 2.43 (1H), 2.54 (3H), 2.68 - 3.17 (2H), 3.50 - 3.79 (1H), 4.07 (2H), 4.37 (3H), 7.09 - 7.28 (5H), 7.35 - 7.51 (3H), 7.76 (2H), 8.56 (1H), 8.83 (1H).

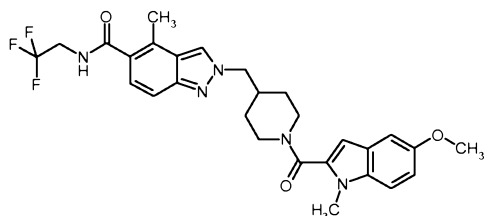
Example 292: 2-(1-{1-[(5-fluoro-1-methyl-1H-indol-2-yl)carbonyl]piperidin-4-yl}methyl)-4-methyl-N-(2,2,2-trifluoroethyl)-2H-indazol-5-carboxamide



Analogously to Example 1b, Version B, 28 mg of the title compound was obtained from 100 mg of 71a and 82 mg of 5-fluoro-1-methyl-1H-indol-2-carboxylic acid in DMF.

¹H-NMR (400 MHz, DMSO-d₆): δ [ppm]= 1.18 - 1.38 (2H), 1.39 - 1.72 (2H), 2.25 - 2.42 (1H), 2.54 (3H), 2.74 - 3.25 (2H), 3.73 (3H), 4.07 (3H), 4.38 (3H), 6.58 (1H), 7.09 (1H), 7.21 (1H), 7.36 (1H), 7.47 (2H), 8.57 (1H), 8.83 (1H).

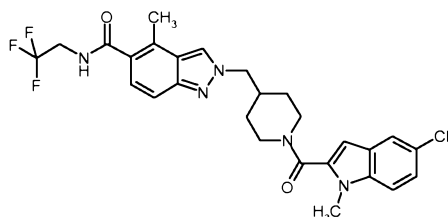
Example 293: 2-(1-{1-[(5-methoxy-1-methyl-1H-indol-2-yl)carbonyl]piperidin-4-yl}methyl)-4-methyl-N-(2,2,2-trifluoroethyl)-2H-indazol-5-carboxamide



Analogously to Example 1b, Version B, 37 mg of the title compound was obtained from 100 mg of 71a and 87 mg of 5-methoxy-1-methyl-1H-indol-2-carboxylic acid in DMF.

¹H-NMR (400 MHz, DMSO-d₆): δ [ppm]= 1.30 (2H), 1.41 - 1.71 (2H), 2.26 - 2.43 (1H), 2.54 (3H), 2.71 - 3.22 (2H), 3.69 (3H), 3.75 (3H), 4.07 (3H), 4.39 (3H), 6.51 (1H), 6.88 (1H), 7.07 (1H), 7.21 (1H), 7.34 - 7.54 (2H), 8.57 (1H), 8.83 (1H).

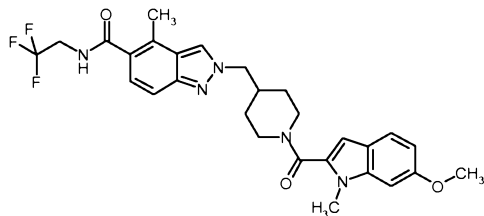
Example 294: 2-(1-[(5-chloro-1-methyl-1H-indol-2-yl)carbonyl]piperidin-4-yl)methyl)-4-methyl-N-(2,2,2-trifluoroethyl)-2H-indazol-5-carboxamide



Analogously to Example 1b, Version B, 43 mg of the title compound was obtained from 100 mg of 71a and 89 mg of 5-chloro-1-methyl-1H-indol-2-carboxylic acid in DMF.

¹H-NMR (400 MHz, DMSO-d₆): δ [ppm]= 1.29 (2H), 1.38 - 1.72 (2H), 2.26 - 2.43 (1H), 2.54 (3H), 2.71 - 3.21 (2H), 3.73 (3H), 3.84 - 4.18 (3H), 4.38 (3H), 6.59 (1H), 7.15 - 7.28 (2H), 7.47 (1H), 7.55 (1H), 7.65 (1H), 8.57 (1H), 8.83 (1H).

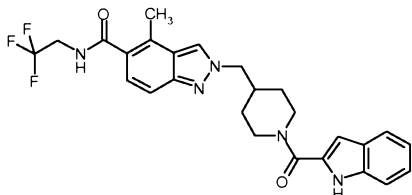
Example 295: 2-(1-[(6-methoxy-1-methyl-1H-indol-2-yl)carbonyl]piperidin-4-yl)methyl)-4-methyl-N-(2,2,2-trifluoroethyl)-2H-indazol-5-carboxamide



Analogously to Example 1b, Version B, 36 mg of the title compound was obtained from 100 mg of 71a and 87 mg of 6-methoxy-1-methyl-1H-indol-2-carboxylic acid in DMF.

¹H-NMR (400 MHz, DMSO-d₆): δ [ppm]= 1.28 (2H), 1.52 (2H), 2.25 - 2.43 (1H), 2.54 (3H), 2.78 - 3.16 (2H), 3.70 (3H), 3.82 (3H), 3.97 - 4.63 (6H), 6.54 (1H), 6.73 (1H), 7.01 (1H), 7.21 (1H), 7.39 - 7.53 (2H), 8.57 (1H), 8.83 (1H).

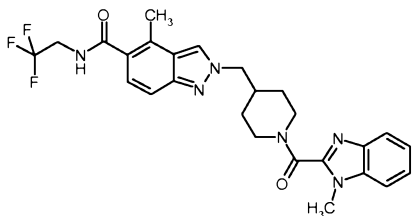
Example 296: 2-([1-(1H-Indol-2-ylcarbonyl)piperidin-4-yl]methyl)-4-methyl-N-(2,2,2-trifluoroethyl)-2H-indazol-5-carboxamide



Analogously to Example 1b, Version B, 43 mg of the title compound was obtained from 100 mg of 71a and 68 mg of indol-2-carboxylic acid in DMF.

¹H-NMR (400 MHz, DMSO-d₆): δ [ppm]= 1.16 - 1.40 (2H), 1.58 (2H), 2.27 - 2.44 (1H), 2.55 (3H), 2.77 - 3.24 (2H), 4.07 (2H), 4.30 - 4.59 (4H), 6.74 (1H), 6.95 - 7.08 (1H), 7.10 - 7.26 (2H), 7.40 (1H), 7.48 (1H), 7.59 (1H), 8.58 (1H), 8.84 (1H), 11.54 (1H).

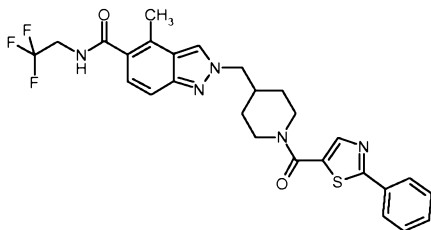
Example 297: 4-methyl-2-([1-[(1-methyl-1H-benzimidazol-2-yl)carbonyl]piperidin-4-yl]-methyl)-N-(2,2,2-trifluoroethyl)-2H-indazol-5-carboxamide



Analogously to Example 1b, Version B, 26 mg of the title compound was obtained from 100 mg of 71a and 75 mg of 1-methyl-1H-benzimidazol-2-carboxylic acid in DMF.

¹H-NMR (400 MHz, DMSO-d₆): δ [ppm]= 1.17 - 1.42 (2H), 1.46 (1H), 1.57 - 1.75 (1H), 2.27 - 2.44 (1H), 2.54 (3H), 2.87 (1H), 3.11 (1H), 3.83 (3H), 4.07 (3H), 4.40 (2H), 4.48 - 4.62 (1H), 7.13 - 7.41 (3H), 7.47 (1H), 7.58 - 7.76 (2H), 8.58 (1H), 8.83 (1H).

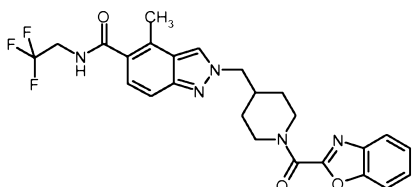
Example 298: 4-methyl-2-([1-[(2-phenylthiazol-5-yl)carbonyl]piperidin-4-yl]methyl)-N-(2,2,2-trifluoroethyl)-2H-indazol-5-carboxamide



Analogously to Example 1b, Version B, 53 mg of the title compound was obtained from 100 mg of 71a and 87 mg of 2-phenylthiazol-5-carboxylic acid in DMF.

¹H-NMR (400 MHz, DMSO-d₆): δ [ppm]= 1.18 - 1.41 (2H), 1.56 (2H), 2.27 - 2.44 (1H), 2.54 (3H), 2.73 - 3.29 (2H), 3.93 - 4.53 (6H), 7.21 (1H), 7.42 - 7.61 (4H), 7.93 - 8.03 (2H), 8.14 (1H), 8.57 (1H), 8.83 (1H).

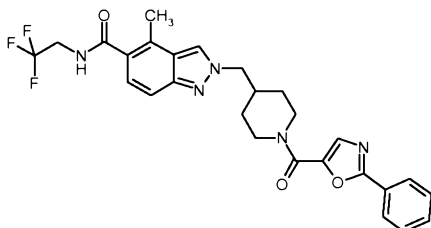
- 5 **Example 299:** 2- {[1-(benzoxazol-2-ylcarbonyl)piperidin-4-yl]methyl}-4-methyl-N-(2,2,2-trifluoroethyl)-2H-indazol-5-carboxamide



Analogously to Example 1b, Version B, 20 mg of the title compound was obtained from 100 mg of 71a and 69 mg of benzoxazol-2-carboxylic acid in DMF.

- 10 ¹H-NMR (400 MHz, DMSO-d₆): δ [ppm]= 1.19 - 1.44 (2H), 1.48 - 1.72 (2H), 2.29 - 2.46 (1H), 2.54 (3H), 2.82 - 3.01 (1H), 3.12 - 3.31 (1H), 4.07 (2H), 4.40 (4H), 7.21 (1H), 7.42 - 7.61 (3H), 7.78 - 7.95 (2H), 8.58 (1H), 8.83 (1H).

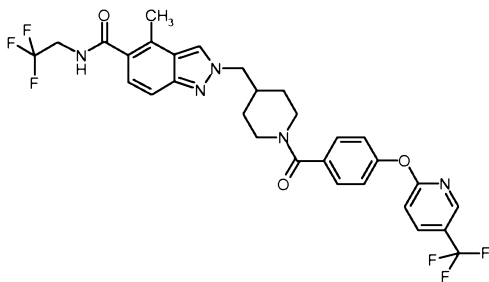
- 15 **Example 300:** 4-methyl-2-({1-[(2-phenyloxazol-5-yl)carbonyl]piperidin-4-yl}methyl)-N-(2,2,2-trifluoroethyl)-2H-indazol-5-carboxamide



Analogously to Example 1b, Version B, 20 mg of the title compound was obtained from 100 mg of 71a and 80 mg of 2-phenyloxazol-5-carboxylic acid in DMF.

- 20 ¹H-NMR (400 MHz, DMSO-d₆): δ [ppm]= 1.15 - 1.43 (2H), 1.59 (2H), 2.31 - 2.45 (1H), 2.55 (3H), 2.70 - 3.35 (2H), 4.07 (2H), 4.39 (4H), 7.21 (1H), 7.48 (1H), 7.53 - 7.67 (3H), 7.80 (1H), 7.94 - 8.07 (2H), 8.58 (1H), 8.83 (1H).

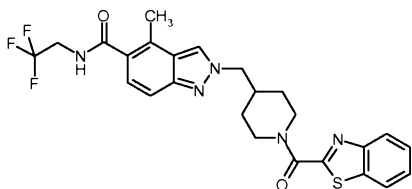
Example 301: 4-methyl-N-(2,2,2-trifluoroethyl)-2- {[1-(4- {[5-(trifluoromethyl)pyridin-2-yl]-oxy}benzoyl)piperidin-4-yl]methyl}-2H-indazol-5-carboxamide



Analogously to Example 1b, Version B, 23 mg of the title compound was obtained from 75 mg of 71a and 90 mg of 4-{{5-(trifluoromethyl)pyridin-2-yl}oxy}benzoic acid in DMF.

¹H-NMR (300 MHz, DMSO-d₆): δ [ppm]= 1.13 - 1.35 (2H), 1.37 - 1.72 (2H), 2.19 - 2.42 (1H),
 5 2.54 (3H), 2.69 - 3.17 (2H), 3.55 - 3.82 (1H), 3.91 - 4.18 (2H), 4.26 - 4.60 (3H), 7.28 (4H), 7.38
 - 7.56 (3H), 8.16 - 8.33 (1H), 8.49 - 8.63 (2H), 8.75 - 8.91 (1H).

Example 302: 2-{{1-(benzothiazol-2-ylcarbonyl)piperidin-4-yl}methyl}-4-methyl-N-(2,2,2-trifluoroethyl)-2H-indazol-5-carboxamide

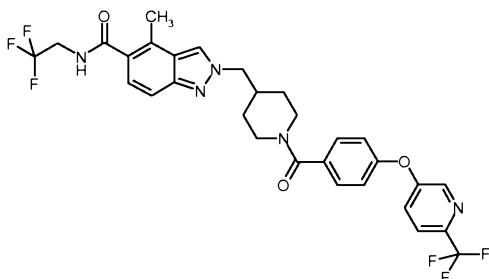


10

Analogously to Example 1b, Version B, 35 mg of the title compound was obtained from 75 mg of 71a and 57 mg of benzothiazol-2-carboxylic acid in DMF.

¹H-NMR (300 MHz, DMSO-d₆): δ [ppm]= 1.36 (2H), 1.59 (2H), 2.31 - 2.46 (1H), 2.55 (3H),
 2.91 (1H), 3.26 (1H), 4.07 (2H), 4.31 - 4.61 (3H), 4.95 - 5.23 (1H), 7.21 (1H), 7.41 - 7.69 (3H),
 15 8.05 - 8.28 (2H), 8.58 (1H), 8.83 (1H).

Example 303: 4-methyl-N-(2,2,2-trifluoroethyl)-2-{{1-(4-{{6-(trifluoromethyl)pyridin-3-yl}oxy}benzoyl)piperidin-4-yl}methyl}-2H-indazol-5-carboxamide

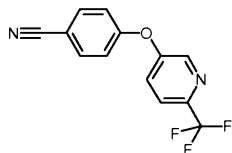


20 Analogously to Example 1b, Version B, 42 mg of the title compound was obtained from 75 mg of 71a and 90 mg of the carboxylic acid prepared in Example 303b) in DMF.

¹H-NMR (400 MHz, DMSO-d₆): δ [ppm]= 1.16 - 1.33 (2H), 1.34 - 1.67 (2H), 2.21 - 2.39 (1H), 2.54 (3H), 2.68 - 3.16 (2H), 3.52 - 3.76 (1H), 3.95 - 4.16 (2H), 4.28 - 4.61 (3H), 7.13 - 7.31 (3H), 7.46 (3H), 7.59 - 7.71 (1H), 7.92 (1H), 8.52 - 8.65 (2H), 8.84 (1H).

5 The starting material was prepared as follows:

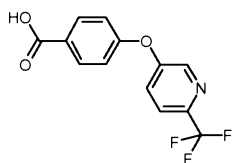
Example 303a: 4-{[6-(trifluoromethyl)pyridin-3-yl]oxy}benzonitrile



2.5 g of 5-bromo-2-(trifluoromethyl)pyridine, 5.8 g of 4-hydroxybenzonitrile, 10.8 g of caesium carbonate and 1.87 g of molybdenum hexacarbonyl in 100 ml 1,4-dioxan were heated under reflux until complete conversion. The reaction mixture was diluted with water, extracted several times with ethyl acetate, and the combined organic phases washed with saturated sodium chloride solution, dried over sodium sulphate and concentrated. The residue was purified by column chromatography on silica gel using a hexane/ ethyl acetate gradient. Yield: 1.35 g of the title compound.

¹H-NMR (300 MHz, DMSO-d₆): δ [ppm]= 7.35 (2H), 7.75 - 7.84 (1H), 7.89 - 8.03 (3H), 8.66 (1H).

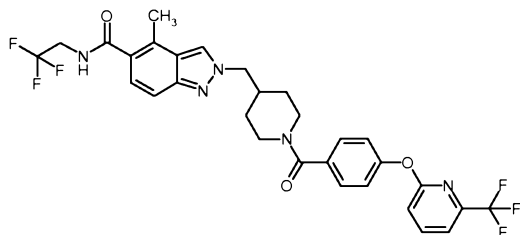
Example 303b: 4-{[6-(trifluoromethyl)pyridin-2-yl]oxy}benzoic acid



1.33 g of the compound prepared in Example 303a in 64 ml ethanol was treated with 32 ml of 40% potassium hydroxide solution and heated under reflux until complete conversion. The reaction mixture was diluted with water and extracted with ethyl acetate. The organic phase was washed with saturated sodium chloride solution, dried over sodium sulphate and concentrated. Yield: 1.32 g of the title compound.

¹H-NMR (400 MHz, DMSO-d₆): δ [ppm]= 7.19 - 7.33 (2H), 7.68 - 7.81 (1H), 7.90 - 8.08 (3H), 8.64 (1H), 12.71 - 13.28 (1H).

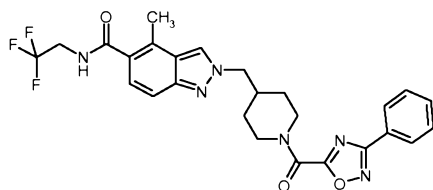
Example 304: 4-methyl-N-(2,2,2-trifluoroethyl)-2-{[1-(4-{[6-(trifluoromethyl)pyridin-2-yl]-oxy}benzoyl)piperidin-4-yl]methyl}-2H-indazol-5-carboxamide



Analogously to Example 1b, Version B, 48 mg of the title compound was obtained from 75 mg of 71a and 90 mg of 4-{{6-(trifluoromethyl)pyridin-2-yl}oxy}benzoic acid in DMF.

¹H-NMR (400 MHz, DMSO-d₆): δ [ppm]= 1.15 - 1.34 (2H), 1.35 - 1.71 (2H), 2.23 - 2.41 (1H), 2.54 (3H), 2.67 - 3.17 (2H), 3.51 - 3.77 (1H), 3.97 - 4.18 (2H), 4.22 - 4.65 (3H), 7.13 - 7.31 (3H), 7.37 (1H), 7.41 - 7.53 (3H), 7.67 (1H), 8.07 - 8.20 (1H), 8.57 (1H), 8.75 - 8.92 (1H).

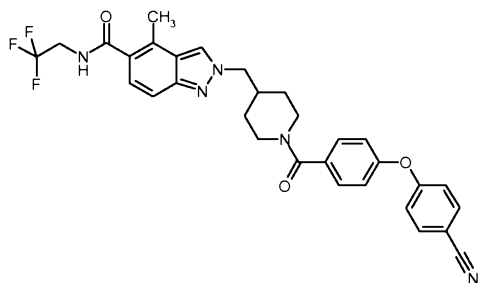
Example 305: 4-methyl-2-({1-[(3-phenyl-1,2,4-oxadiazol-5-yl)carbonyl]piperidin-4-yl}methyl)-N-(2,2,2-trifluoroethyl)-2H-indazol-5-carboxamide



Analogously to Example 1b, Version B, 40 mg of the title compound was obtained from 90 mg of 71a and 73 mg of 3-phenyl-1,2,4-oxadiazol-5-carboxylic acid in DMF.

¹H-NMR (400 MHz, DMSO-d₆): δ [ppm]= 1.18 - 1.43 (2H), 1.48 - 1.72 (2H), 2.33 - 2.47 (1H), 2.54 (3H), 2.95 (1H), 3.24 (1H), 3.94 - 4.17 (3H), 4.33 - 4.53 (3H), 7.21 (1H), 7.47 (1H), 7.55 - 7.70 (3H), 7.96 - 8.12 (2H), 8.57 (1H), 8.83 (1H).

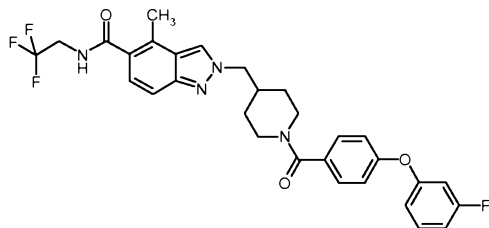
Example 306: 2-({1-[4-(4-cyanophenoxy)benzoyl]piperidin-4-yl}methyl)-4-methyl-N-(2,2,2-trifluoroethyl)-2H-indazol-5-carboxamide



Analogously to Example 1b, Version B, 59 mg of the title compound was obtained from 110 mg of 71a and 101 mg of 4-(4-cyanophenoxy)benzoic acid in DMF.

¹H-NMR (400 MHz, DMSO-d₆): δ [ppm]= 1.17 - 1.34 (2H), 1.35 - 1.70 (2H), 2.18 - 2.41 (1H), 2.54 (3H), 2.70 - 3.18 (2H), 3.54 - 3.79 (1H), 4.07 (2H), 4.37 (3H), 7.10 - 7.28 (5H), 7.41 - 7.52 (3H), 7.79 - 7.94 (2H), 8.56 (s1H), 8.81 (s1H).

Example 307: 2-(1-[4-(3-fluorophenoxy)benzoyl]piperidin-4-yl)methyl)-4-methyl-N-(2,2,2-trifluoroethyl)-2H-indazol-5-carboxamide

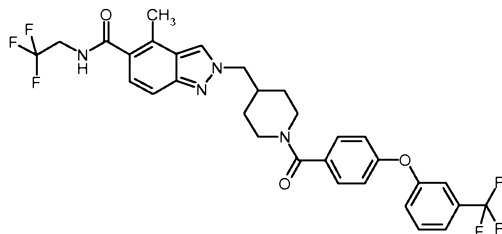


5 Analogously to Example 1b, Version B, 40 mg of the title compound was obtained from 100 mg of 71a and 89 mg of 4-(3-fluorophenoxy)benzoic acid in DMF.

¹H-NMR (400 MHz, DMSO-d₆): δ [ppm]= 1.14 - 1.34 (2H), 1.36 - 1.70 (2H), 2.22 - 2.44 (1H), 2.54 (3H), 2.70 - 3.13 (2H), 3.52 - 3.86 (1H), 4.07 (2H), 4.37 (3H), 6.79 - 7.12 (5H), 7.21 (1H), 7.35 - 7.52 (4H), 8.55 (1H), 8.81 (1H).

10

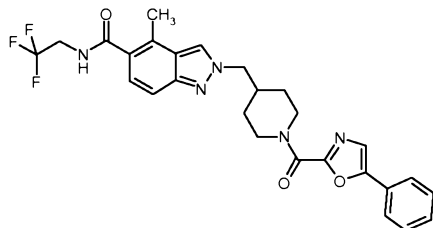
Example 308: 4-methyl-N-(2,2,2-trifluoroethyl)-2-[(1-{4-[3-(trifluoromethyl)phenoxy]benzoyl}piperidin-4-yl)methyl]-2H-indazol-5-carboxamide



15 Analogously to Example 1b, Version B, 47 mg of the title compound was obtained from 100 mg of 71a and 119 mg of 4-[3-(trifluoromethyl)phenoxy]benzoic acid in DMF.

¹H-NMR (400 MHz, DMSO-d₆): δ [ppm]= 1.16 - 1.34 (2H), 1.37 - 1.66 (2H), 2.22 - 2.38 (1H), 2.54 (3H), 2.69 - 3.14 (2H), 3.50 - 3.83 (1H), 4.07 (2H), 4.37 (3H), 7.10 (2H), 7.21 (1H), 7.36 (1H), 7.39 - 7.50 (4H), 7.54 (1H), 7.61 - 7.75 (1H), 8.55 (1H), 8.81 (1H).

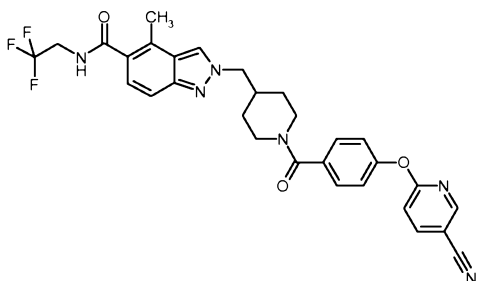
20 **Example 309:** 4-methyl-2-(1-[(5-phenyloxazol-2-yl)carbonyl]piperidin-4-yl)methyl)-N-(2,2,2-trifluoroethyl)-2H-indazol-5-carboxamide



Analogously to Example 1b, Version B, 10 mg of the title compound was obtained from 100 mg of 71a and 73 mg of 5-phenyloxazol-2-carboxylic acid in DMF.

¹H-NMR (400 MHz, DMSO-d₆): δ [ppm]= 1.24 (2H), 1.58 (2H), 2.29 - 2.45 (1H), 2.55 (3H), 2.86 (1H), 3.21 (1H), 4.07 (2H), 4.31 - 4.52 (3H), 4.62 (1H), 7.21 (1H), 7.39 - 7.57 (4H), 7.74 - 7.83 (2H), 7.88 (1H), 8.57 (1H), 8.81 (1H).

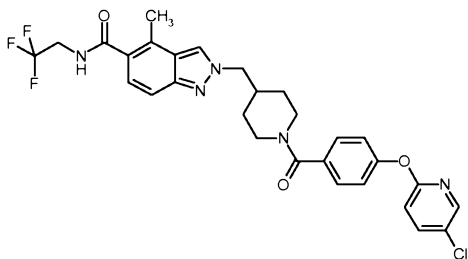
- 5 **Example 310:** 2-[(1-{4-[(5-cyanopyridin-2-yl)oxy]benzoyl}piperidin-4-yl)methyl]-4-methyl-N-(2,2,2-trifluoroethyl)-2H-indazol-5-carboxamide



Analogously to Example 1b, Version B, 47 mg of the title compound was obtained from 100 mg of 71a and 119 mg of 4-[3-(trifluoromethyl)phenoxy]benzoic acid in DMF.

- 10 ¹H-NMR (400 MHz, DMSO-d₆): δ [ppm]= 1.16 - 1.34 (2H), 1.37 - 1.66 (2H), 2.22 - 2.38 (1H), 2.54 (3H), 2.69 - 3.14 (2H), 3.50 - 3.83 (1H), 4.07 (2H), 4.37 (3H), 7.10 (2H), 7.21 (1H), 7.36 (1H), 7.39 - 7.50 (4H), 7.54 (1H), 7.61 - 7.75 (1H), 8.55 (1H), 8.81 (1H).

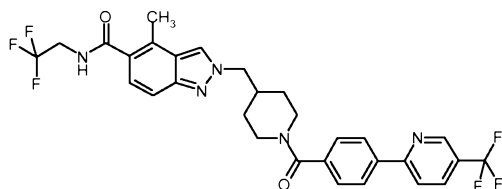
- 15 **Example 311:** 2-[(1-{4-[(5-chloropyridin-2-yl)oxy]benzoyl}piperidin-4-yl)methyl]-4-methyl-N-(2,2,2-trifluoroethyl)-2H-indazol-5-carboxamide



Analogously to Example 1b, Version B, 72 mg of the title compound was obtained from 100 mg of 71a and 96 mg of 4-[(5-chloropyridin-2-yl)oxy]benzoic acid in DMF.

- 20 ¹H-NMR (400 MHz, DMSO-d₆): δ [ppm]= 1.17 - 1.34 (2H), 1.36 - 1.73 (2H), 2.22 - 2.41 (1H), 2.54 (3H), 2.69 - 3.18 (2H), 3.47 - 3.88 (1H), 4.07 (2H), 4.37 (3H), 7.06 - 7.28 (4H), 7.34 - 7.52 (3H), 7.99 (1H), 8.22 (1H), 8.56 (1H), 8.81 (1H).

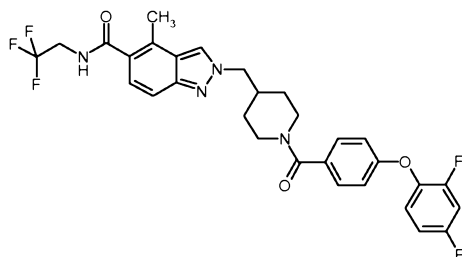
Example 312: 4-methyl-N-(2,2,2-trifluoroethyl)-2-[(1-{4-[5-(trifluoromethyl)pyridin-2-yl]-benzoyl}piperidin-4-yl)methyl]-2H-indazol-5-carboxamide



Analogously to Example 1b, Version B, 83 mg of the title compound was obtained from 100 mg of 71a and 103 mg of 4-[5-(trifluoromethyl)pyridin-2-yl]benzoic acid in DMF.

¹H-NMR (400 MHz, DMSO-d₆): δ [ppm]= 1.28 (2H), 1.36 - 1.73 (2H), 2.33 (1H), 2.54 (3H),
 5 2.70 - 3.18 (2H), 3.47 - 3.76 (1H), 3.96 - 4.16 (2H), 4.38 (3H), 7.21 (1H), 7.41 - 7.60 (3H), 8.17 - 8.40 (4H), 8.56 (1H), 8.81 (1H), 9.07 (1H).

Example 313: 2-({1-[4-(2,4-difluorophenoxy)benzoyl]piperidin-4-yl} methyl)-4-methyl-N-(2,2,2-trifluoroethyl)-2H-indazol-5-carboxamide

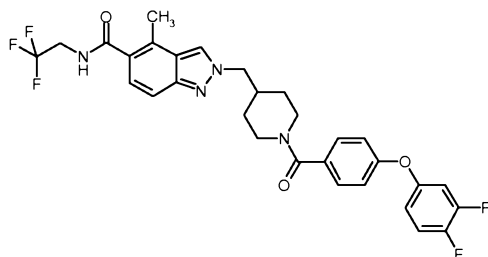


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Analogously to Example 1b, Version B, 87 mg of the title compound was obtained from 100 mg of 71a and 96 mg of 4-(2,4-difluorophenoxy)benzoic acid in DMF.

¹H-NMR (400 MHz, DMSO-d₆): δ [ppm]= 1.23 (2H), 1.34 - 1.72 (2H), 2.18 - 2.42 (1H), 2.52 - 2.58 (3H), 2.69 - 3.20 (2H), 3.43 - 3.84 (1H), 4.07 (2H), 4.36 (3H), 6.92 - 7.06 (2H), 7.09 - 7.25
 15 (2H), 7.28 - 7.42 (3H), 7.43 - 7.61 (2H), 8.55 (1H), 8.81 (1H).

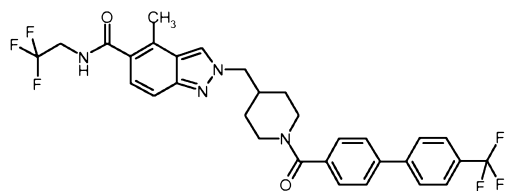
Example 314: 2-({1-[4-(3,4-difluorophenoxy)benzoyl]piperidin-4-yl} methyl)-4-methyl-N-(2,2,2-trifluoroethyl)-2H-indazol-5-carboxamide



20 Analogously to Example 1b, Version B, 48 mg of the title compound was obtained from 100 mg of 71a and 96 mg of 4-(3,4-difluorophenoxy)benzoic acid in DMF.

¹H-NMR (400 MHz, DMSO-d₆): δ [ppm]= 1.24 (2H), 1.36 - 1.72 (2H), 2.19 - 2.42 (1H), 2.54 (3H), 2.70 - 3.17 (2H), 3.44 - 3.86 (1H), 3.99 - 4.17 (2H), 4.36 (3H), 6.86 - 6.97 (1H), 7.01 - 7.11 (2H), 7.21 (1H), 7.29 (1H), 7.35 - 7.55 (4H), 8.55 (1H), 8.81 (1H).

Example 315: 4-methyl-N-(2,2,2-trifluoroethyl)-2-[(1-{[4'-(trifluoromethyl)biphenyl-4-yl]-carbonyl}piperidin-4-yl)methyl]-2H-indazol-5-carboxamide

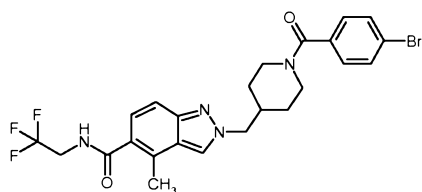


5 Analogously to Example 1b, Version B, 32 mg of the title compound was obtained from 100 mg of 71a and 102 mg of 4'-(trifluoromethyl)biphenyl-4-carboxylic acid in DMF.

¹H-NMR (400 MHz, DMSO-d₆): δ [ppm]= 1.27 (2H), 1.37 - 1.71 (2H), 2.24 - 2.39 (1H), 2.53 (3H), 2.70 - 3.18 (2H), 3.43 - 3.51 (2H), 3.54 - 3.86 (1H), 4.37 (3H), 7.18 (1H), 7.38 - 7.57 (3H), 7.72 - 7.88 (4H), 7.89 - 7.98 (2H), 8.13 (1H), 8.51 (1H).

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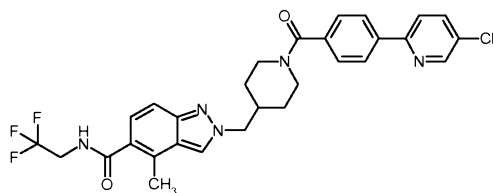
Example 316: 2-{[1-(4-bromobenzoyl)piperidin-4-yl]methyl}-4-methyl-N-(2,2,2-trifluoroethyl)-2H-indazol-5-carboxamide



15 Analogously to Example 1b, Version B, 6.96 g of the title compound was obtained from 5.61 g 71a and 2.89 g of 4-bromobenzoic acid.

¹H-NMR (300 MHz, DMSO-d₆): δ [ppm]= 1.17 - 1.32 (2H), 1.34 - 1.74 (2H), 2.19 - 2.41 (1H), 2.54 (3H), 2.88 - 3.22 (2H), 3.42 - 3.74 (1H), 3.94 - 4.18 (2H), 4.36 (3H), 7.20 (1H), 7.32 (2H), 7.46 (1H), 7.64 (2H), 8.55 (1H), 8.83 (1H).

20 **Example 317:** 2-({1-[4-(5-chloropyridin-2-yl)benzoyl]piperidin-4-yl}methyl)-4-methyl-N-(2,2,2-trifluoroethyl)-2H-indazol-5-carboxamide



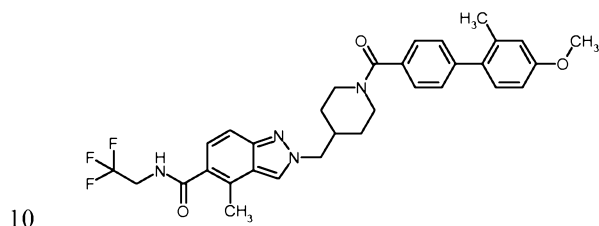
80 mg of the aryl bromide prepared in Example 316 together with 32 mg of (5-chloropyridin-2-yl)boronic acid was first placed in 1 ml tetrahydrofuran, treated with 17.3 mg of 1,1'-bis(diphenylphosphino)ferrocenodichloropalladium(II) and 0.17 ml of 1M potassium carbonate solution and heated in the microwave for 10 minutes at 120°C (100 watts). After fresh addition of 11 mg of (5-chloropyridin-2-yl)boronic acid and 17.3 mg of the palladium(II)

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catalyst, the reaction mixture was again heated in the microwave for 10 minutes at 120°C (100 watts) until complete conversion. The reaction mixture was concentrated. After HPLC purification, this yielded 15 mg of the title compound.

¹H-NMR (300 MHz, DMSO-d₆): δ [ppm]= 1.18 - 1.36 (2H), 1.37 - 1.75 (2H), 2.28 - 2.38 (1H),
 5 2.54 (3H), 2.73 - 3.18 (2H), 3.49 - 3.74 (1H), 3.95 - 4.16 (2H), 4.28 - 4.62 (3H), 7.22 (1H), 7.33
 - 7.65 (5H), 7.98 - 8.22 (3H), 8.56 (1H), 8.77 - 8.91 (1H).

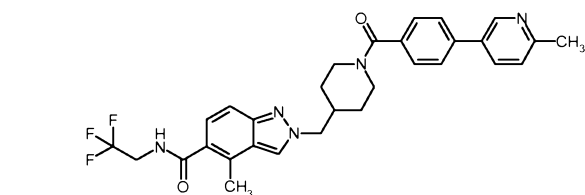
Example 318: 2-(1-[(4'-methoxy-2'-methylbiphenyl-4-yl)carbonyl]piperidin-4-yl)methyl)-4-methyl-N-(2,2,2-trifluoroethyl)-2H-indazol-5-carboxamide



Analogously to Example 317, 50 mg of the title compound was obtained from 125 mg of 316 and 53 mg of (4-methoxy-2-methyl-phenyl)boronic acid.

¹H-NMR (300 MHz, DMSO-d₆): δ [ppm]= 1.16 - 1.36 (2H), 1.37 - 1.74 (2H), 2.23 (3H), 2.29 -
 2.38 (1H), 2.54 (3H), 2.72 - 3.12 (2H), 3.77 (4H), 3.97 - 4.17 (2H), 4.38 (3H), 6.75 - 6.94 (2H),
 15 7.07 - 7.26 (2H), 7.29 - 7.56 (5H), 8.56 (1H), 8.81 (1H).

Example 319: 4-methyl-2-(1-[4-(6-methylpyridin-3-yl)benzoyl]piperidin-4-yl)methyl)-N-(2,2,2-trifluoroethyl)-2H-indazol-5-carboxamide

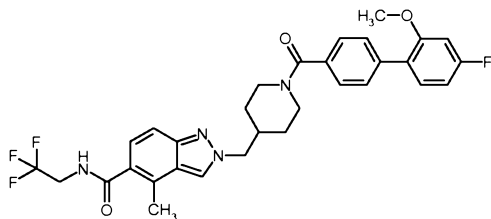


Analogously to Example 317, 37 mg of the title compound was obtained from 125 mg of 316 and 44 mg of (6-methylpyridin-3-yl)boronic acid under reflux.

¹H-NMR (300 MHz, DMSO-d₆): δ [ppm]= 1.15 - 1.35 (2H), 1.37 - 1.71 (2H), 2.20 - 2.40 (1H),
 2.52 (3H), 2.54 (3H), 2.74 - 3.15 (2H), 3.52 - 3.82 (1H), 4.07 (2H), 4.38 (3H), 7.20 (1H), 7.37
 (1H), 7.47 (3H), 7.77 (2H), 8.01 (1H), 8.57 (1H), 8.72 - 8.92 (2H).

25

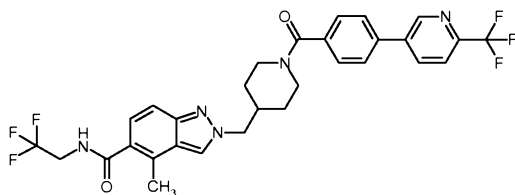
Example 320: 2-(1-[(4'-fluoro-2'-methoxybiphenyl-4-yl)carbonyl]piperidin-4-yl)methyl)-4-methyl-N-(2,2,2-trifluoroethyl)-2H-indazol-5-carboxamide



Analogously to Example 317, 60 mg of the title compound was obtained from 125 mg of 316 and 75 g of (4-fluoro-2-methoxyphenyl)boronic acid under reflux.

¹H-NMR (300 MHz, DMSO-d₆): δ [ppm]= 1.16 - 1.37 (2H), 1.38 - 1.75 (2H), 2.25 - 2.37 (1H), 2.54 (3H), 2.72 - 3.17 (2H), 3.79 (4H), 4.07 (2H), 4.38 (3H), 6.87 (1H), 7.04 (1H), 7.21 (1H), 7.27 - 7.58 (6H), 8.56 (1H), 8.81 (1H).

Example 321: 4-methyl-N-(2,2,2-trifluoroethyl)-2-[(1-{4-[6-(trifluoromethyl)pyridin-3-yl]benzoyl}piperidin-4-yl)methyl]-2H-indazol-5-carboxamide



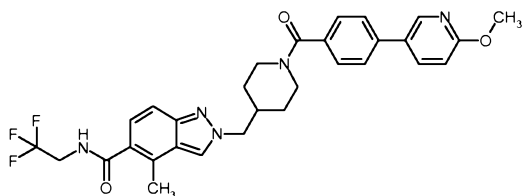
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Analogously to Example 317, 45 mg of the title compound was obtained from 125 mg of 316 and 84 mg of [6-(trifluoromethyl)pyridin-3-yl]boronic acid under reflux.

¹H-NMR (300 MHz, DMSO-d₆): δ [ppm]= 1.15 - 1.37 (2H), 1.37 - 1.71 (2H), 2.22 - 2.41 (1H), 2.54 (3H), 2.73 - 3.20 (2H), 3.45 - 3.74 (1H), 3.93 - 4.17 (2H), 4.29 - 4.62 (3H), 7.21 (1H), 7.39 - 7.62 (4H), 7.89 (2H), 8.01 (1H), 8.57 (1H), 8.73 - 8.92 (1H), 9.13 (1H).

15

Example 322: 2-({1-[4-(6-methoxypyridin-3-yl)benzoyl]piperidin-4-yl}methyl)-4-methyl-N-(2,2,2-trifluoroethyl)-2H-indazol-5-carboxamide



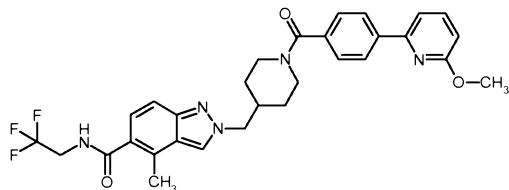
20

Analogously to Example 317, 54 mg of the title compound was obtained from 125 mg of 316 and 68 mg of (6-methoxypyridin-3-yl)boronic acid under reflux.

¹H-NMR (300 MHz, DMSO-d₆): δ [ppm]= 1.13 - 1.35 (2H), 1.36 - 1.71 (2H), 2.20 - 2.40 (1H), 2.54 (3H), 2.73 - 3.16 (2H), 3.51 - 3.77 (1H), 3.90 (3H), 3.96 - 4.19 (2H), 4.37 (3H), 6.93 (1H), 7.20 (1H), 7.39 - 7.52 (3H), 7.73 (2H), 8.05 (1H), 8.47 - 8.63 (2H), 8.83 (1H).

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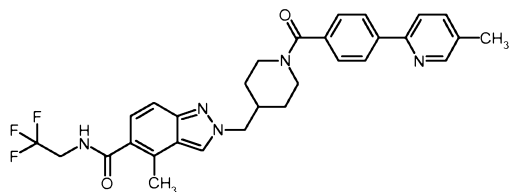
Example 323: 2-({1-[4-(6-methoxypyridin-2-yl)benzoyl]piperidin-4-yl} methyl)-4-methyl-N-(2,2,2-trifluoroethyl)-2H-indazol-5-carboxamide



Analogously to Example 317, 55 mg of the title compound was obtained from 125 mg of 316 and 49 mg of (6-methoxypyridin-2-yl)boronic acid under reflux.

¹H-NMR (300 MHz, DMSO-d₆): δ [ppm]= 1.16 - 1.36 (2H), 1.37 - 1.69 (2H), 2.20 - 2.41 (1H), 2.54 (3H), 2.74 - 3.16 (2H), 3.47 - 3.81 (1H), 3.96 (3H), 4.06 (2H), 4.38 (3H), 6.81 (1H), 7.21 (1H), 7.47 (3H), 7.60 (1H), 7.74 - 7.90 (1H), 8.15 (2H), 8.56 (1H), 8.81 (1H).

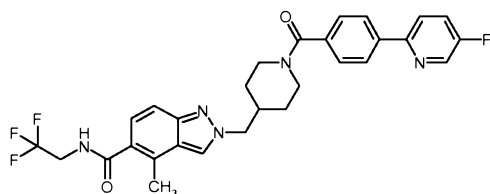
Example 324: 4-methyl-2-({1-[4-(5-methylpyridin-2-yl)benzoyl]piperidin-4-yl} methyl)-N-(2,2,2-trifluoroethyl)-2H-indazol-5-carboxamide



Analogously to Example 317, 9 mg of the title compound was obtained from 125 mg of 316 and 44 mg of (5-methylpyridin-2-yl)boronic acid under reflux.

¹H-NMR (300 MHz, DMSO-d₆): δ [ppm]= 1.16 - 1.36 (2H), 1.37 - 1.71 (2H), 2.24 - 2.30 (1H), 2.34 (3H), 2.54 (3H), 2.74 - 3.16 (2H), 3.52 - 3.79 (1H), 3.93 - 4.17 (2H), 4.38 (3H), 7.20 (1H), 7.37 - 7.54 (3H), 7.66 - 7.78 (1H), 7.89 (1H), 8.11 (2H), 8.45 - 8.61 (2H), 8.74 - 8.88 (1H).

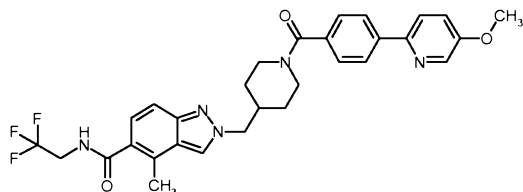
Example 325: 2-({1-[4-(5-fluoropyridin-2-yl)benzoyl]piperidin-4-yl} methyl)-4-methyl-N-(2,2,2-trifluoroethyl)-2H-indazol-5-carboxamide



Analogously to Example 317, 35 mg of the title compound was obtained from 125 mg of 316 and 45 mg of (5-fluoropyridin-2-yl)boronic acid under reflux.

¹H-NMR (400 MHz, DMSO-d₆): δ [ppm]= 1.17 - 1.34 (2H), 1.35 - 1.69 (2H), 2.22 - 2.41 (1H), 2.54 (3H), 2.69 - 3.19 (2H), 3.51 - 3.78 (1H), 4.07 (2H), 4.38 (3H), 7.20 (1H), 7.40 - 7.53 (3H), 7.85 (1H), 8.04 - 8.17 (3H), 8.57 (1H), 8.68 (1H), 8.83 (1H).

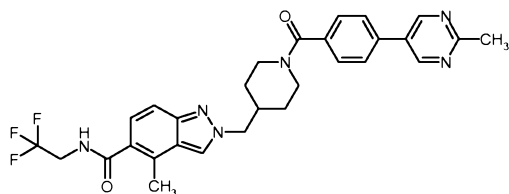
Example 326: 2-({1-[4-(5-methoxypyridin-2-yl)benzoyl]piperidin-4-yl} methyl)-4-methyl-N-(2,2,2-trifluoroethyl)-2H-indazol-5-carboxamide



Analogously to Example 317, 94 mg of the title compound was obtained from 125 mg of 316 and 49 mg of (5-methoxypyridin-2-yl)boronic acid under reflux.

¹H-NMR (300 MHz, DMSO-d₆): δ [ppm]= 1.19 - 1.36 (2H), 1.37 - 1.69 (2H), 2.28 - 2.40 (1H), 2.54 (3H), 2.73 - 3.19 (2H), 3.48 - 3.79 (1H), 3.88 (3H), 4.07 (2H), 4.38 (3H), 7.20 (1H), 7.38 - 7.55 (4H), 7.96 (1H), 8.07 (2H), 8.39 (1H), 8.57 (1H), 8.82 (1H).

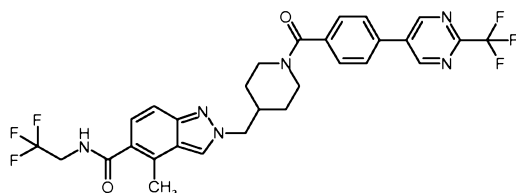
Example 327: 4-methyl-2-({1-[4-(2-methylpyrimidin-5-yl)benzoyl]piperidin-4-yl} methyl)-N-(2,2,2-trifluoroethyl)-2H-indazol-5-carboxamide



Analogously to Example 317, 46 mg of the title compound was obtained from 125 mg of 316 and 102 mg of (2-methylpyrimidin-5-yl)boronic acid pinacol ester under reflux.

¹H-NMR (400 MHz, DMSO-d₆): δ [ppm]= 1.16 - 1.35 (2H), 1.35 - 1.67 (2H), 2.21 - 2.42 (1H), 2.54 (3H), 2.67 (3H), 2.71 - 2.89 (1H), 2.93 - 3.20 (1H), 3.50 - 3.73 (1H), 4.07 (2H), 4.37 (3H), 7.20 (1H), 7.40 - 7.57 (3H), 7.85 (2H), 8.57 (1H), 8.84 (1H), 9.05 (2H).

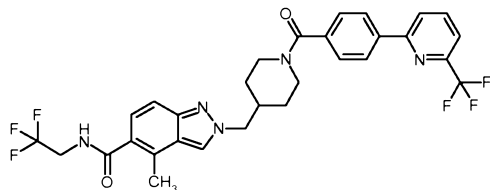
Example 328: 4-methyl-N-(2,2,2-trifluoroethyl)-2-[(1-{4-[2-(trifluoromethyl)pyrimidin-5-yl]-benzoyl}piperidin-4-yl)methyl]-2H-indazol-5-carboxamide



Analogously to Example 317, 34 mg of the title compound was obtained from 125 mg of 316 and 89 mg of [2-(trifluoromethyl)pyrimidin-5-yl]boronic acid under reflux.

¹H-NMR (400 MHz, DMSO-d₆): δ [ppm]= 1.21 - 1.35 (2H), 1.36 - 1.71 (2H), 2.23 - 2.41 (1H), 2.54 (3H), 2.71 - 2.89 (1H), 2.94 - 3.17 (1H), 3.48 - 3.72 (1H), 4.05 (2H), 4.28 - 4.61 (3H), 7.21 (1H), 7.47 (1H), 7.57 (2H), 7.98 (2H), 8.57 (1H), 8.84 (1H), 9.44 (2H).

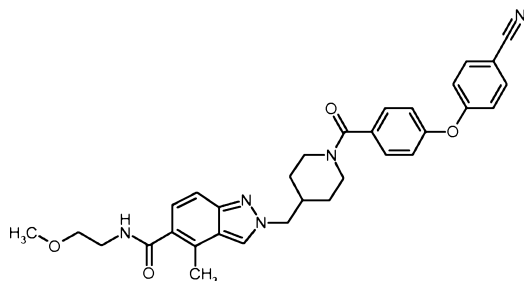
Example 329: 4-methyl-N-(2,2,2-trifluoroethyl)-2-[(1-{4-[6-(trifluoromethyl)pyridin-2-yl]-benzoyl}piperidin-4-yl)methyl]-2H-indazol-5-carboxamide



Analogously to Example 317, 70 mg of the title compound was obtained from 125 mg of 316 and 121 mg of [6-(trifluoromethyl)pyridin-2-yl]boronic acid pinacol ester under reflux.

¹H-NMR (400 MHz, DMSO-d₆): δ [ppm]= 1.19 - 1.36 (2H), 1.37 - 1.72 (2H), 2.23 - 2.39 (1H), 2.54 (3H), 2.68 - 2.90 (1H), 2.92 - 3.16 (1H), 3.50 - 3.73 (1H), 4.06 (2H), 4.38 (3H), 7.20 (1H), 7.41 - 7.60 (3H), 7.89 (1H), 8.11 - 8.27 (3H), 8.33 (1H), 8.56 (1H), 8.81 (1H).

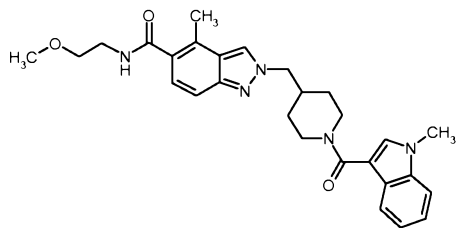
Example 330: 2-({1-[4-(4-cyanophenoxy)benzoyl]piperidin-4-yl}methyl)-N-(2-methoxyethyl)-4-methyl-2H-indazol-5-carboxamide



Analogously to Example 1b, Version B, 151 mg of the title compound was obtained from 213 mg of 71a and 153 mg of 4-(4-cyanophenoxy)benzoic acid in DMF.

¹H-NMR (300 MHz, DMSO-d₆): δ [ppm]= 1.22 (2H), 1.31 - 1.66 (2H), 2.15 - 2.36 (1H), 2.49 (3H), 2.70 - 3.12 (2H), 3.24 (3H), 3.36 (2H), 3.39 - 3.46 (2H), 3.50 - 3.79 (1H), 4.32 (3H), 7.00 - 7.23 (5H), 7.30 - 7.49 (3H), 7.75 - 7.91 (2H), 8.12 (1H), 8.48 (1H).

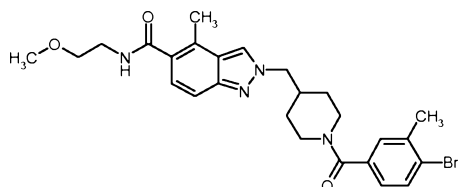
Example 331: N-(2-methoxyethyl)-4-methyl-2-({1-[(1-methyl-1H-indol-3-yl)carbonyl]piperidin-4-yl}methyl)-2H-indazol-5-carboxamide



Analogously to Example 1b, Version B, 26 mg of the title compound was obtained from 38 mg of 71a and 36 mg of 1-methyl-1H-indol-3-carboxylic acid in DMF.

¹H-NMR (300 MHz, DMSO-d₆): δ [ppm]= 1.23 (2H), 1.43 - 1.64 (2H), 2.20 - 2.39 (1H), 2.53 (3H), 2.80 - 3.03 (2H), 3.28 (3H), 3.37 - 3.50 (4H), 3.81 (3H), 4.37 (4H), 7.18 (3H), 7.36 - 7.53 (2H), 7.67 (2H), 8.04 - 8.25 (1H), 8.52 (1H).

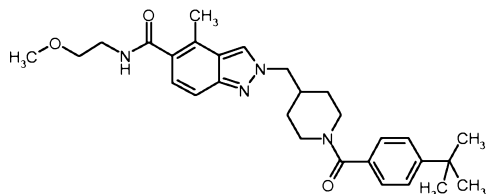
- 5 **Example 332:** 2-([1-(4-bromo-3-methylbenzoyl)piperidin-4-yl]methyl)-N-(2-methoxyethyl)-4-methyl-2H-indazol-5-carboxamide



Analogously to Example 1b, Version B, 498 mg of the title compound was obtained from 807 mg of 71a and 788 mg of 4-bromo-3-methylbenzoic acid in DMF.

- 10 ¹H-NMR (300 MHz, DMSO-d₆): δ [ppm]= 1.20 - 1.32 (2H), 1.33 - 1.67 (2H), 2.24 - 2.33 (1H), 2.36 (3H), 2.52 (3H), 2.73 (1H), 2.91 - 3.13 (1H), 3.28 (3H), 3.35 - 3.63 (5H), 4.34 (3H), 7.03 - 7.23 (2H), 7.30 - 7.49 (2H), 7.63 (1H), 8.15 (1H), 8.51 (1H).

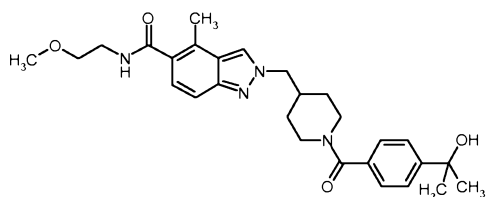
- 15 **Example 333:** 2-([1-(4-tert-butylbenzoyl)piperidin-4-yl]methyl)-N-(2-methoxyethyl)-4-methyl-2H-indazol-5-carboxamide



Analogously to Example 1b, Version B, 50 mg of the title compound was obtained from 100 mg of 71a and 81 mg of 4-tert-butylbenzoic acid in DMF.

- 20 ¹H-NMR (400 MHz, DMSO-d₆): δ [ppm]= 1.20 - 1.33 (11H), 1.33 - 1.67 (2H), 2.21 - 2.37 (1H), 2.52 (3H), 2.68 - 3.10 (2H), 3.28 (3H), 3.36 - 3.43 (2H), 3.45 (2H), 3.52 - 3.74 (1H), 4.35 (3H), 7.18 (1H), 7.25 - 7.35 (2H), 7.36 - 7.52 (3H), 8.15 (1H), 8.50 (1H).

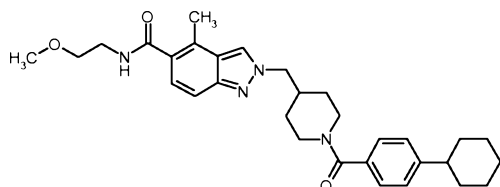
- Example 334:** 2-([1-[4-(1-hydroxy-1-methylethyl)benzoyl]piperidin-4-yl]methyl)-N-(2-methoxyethyl)-4-methyl-2H-indazol-5-carboxamide



- 25 Analogously to Example 1b, Version B, 28 mg of the title compound was obtained from 100 mg of 71a and 82 mg of 4-(1-hydroxy-1-methylethyl)benzoic acid in DMF.

¹H-NMR (400 MHz, DMSO-d₆): δ [ppm]= 1.24 (2H), 1.42 (8H), 2.20 - 2.40 (1H), 2.52 (3H), 2.64 - 3.11 (2H), 3.28 (3H), 3.34 - 3.43 (2H), 3.43 - 3.51 (2H), 3.53 - 3.71 (1H), 4.35 (3H), 4.76 - 5.43 (1H), 7.18 (1H), 7.28 (2H), 7.42 (1H), 7.46 - 7.56 (2H), 8.15 (1H), 8.51 (1H).

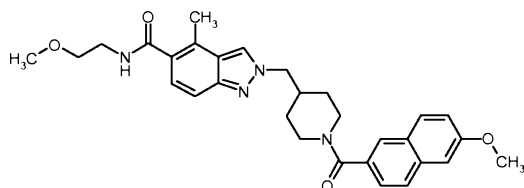
- 5 **Example 335:** 2-{[1-(4-cyclohexylbenzoyl)piperidin-4-yl]methyl}-N-(2-methoxyethyl)-4-methyl-2H-indazol-5-carboxamide



Analogously to Example 1b, Version B, 75 mg of the title compound was obtained from 100 mg of 71a and 93 mg of 4-cyclohexylbenzoic acid in DMF.

- 10 ¹H-NMR (400 MHz, DMSO-d₆): δ [ppm]= 1.10 - 1.63 (9H), 1.64 - 1.89 (5H), 2.17 - 2.40 (1H), 2.52 (3H), 2.69 - 3.08 (2H), 3.28 (3H), 3.38 - 3.43 (2H), 3.43 - 3.49 (2H), 3.53 - 3.73 (1H), 4.35 (3H), 7.18 (1H), 7.27 (4H), 7.42 (1H), 8.15 (1H), 8.50 (1H).

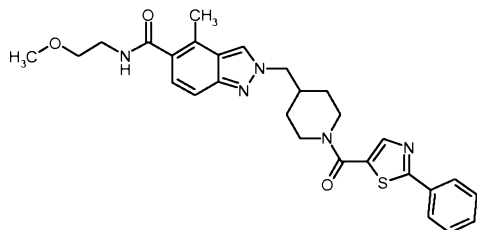
- 15 **Example 336:** N-(2-methoxyethyl)-2-{[1-(6-methoxy-2-naphthoyl)piperidin-4-yl]methyl}-4-methyl-2H-indazol-5-carboxamide



Analogously to Example 1b, Version B, 23 mg of the title compound was obtained from 100 mg of 71a) and 92 mg of 6-methoxy-naphthalen-2-carboxylic acid in DMF.

- 20 ¹H-NMR (400 MHz, DMSO-d₆): δ [ppm]= 1.23 (2H), 1.37 - 1.72 (2H), 2.23 - 2.39 (1H), 2.52 (3H), 2.72 - 3.12 (2H), 3.28 (3H), 3.36 - 3.42 (2H), 3.43 - 3.49 (2H), 3.59 - 3.81 (1H), 3.89 (3H), 4.36 (3H), 7.09 - 7.27 (2H), 7.33 - 7.49 (3H), 7.79 - 7.95 (3H), 8.15 (1H), 8.51 (1H).

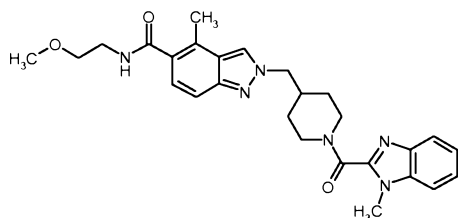
- 25 **Example 337:** N-(2-methoxyethyl)-4-methyl-2-({1-[(2-phenylthiazol-5-yl)carbonyl]piperidin-4-yl}methyl)-2H-indazol-5-carboxamide



Analogously to Example 1b, Version B, 36 mg of the title compound was obtained from 100 mg of 71a and 93 mg of 2-phenylthiazol-5-carboxylic acid in DMF.

¹H-NMR (400 MHz, DMSO-d₆): δ [ppm]= 1.23 (2H), 1.55 (2H), 2.19 - 2.45 (1H), 2.52 - 2.56 (3H), 2.70 - 3.24 (2H), 3.28 (3H), 3.36 - 3.43 (2H), 3.44 - 3.49 (2H), 4.37 (4H), 7.19 (1H), 7.43 (1H), 7.49 - 7.62 (3H), 7.90 - 8.03 (2H), 8.08 - 8.25 (2H), 8.52 (1H).

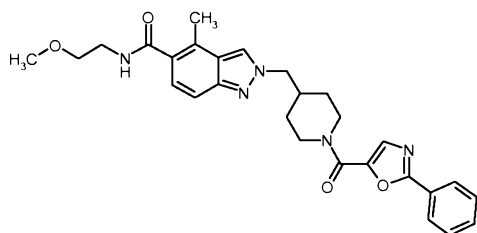
Example 338: N-(2-methoxyethyl)-4-methyl-2-({1-[(1-methyl-1H-benzimidazol-2-yl)carbonyl]piperidin-4-yl} methyl)-2H-indazol-5-carboxamide



Analogously to Example 1b, Version B, 39 mg of the title compound was obtained from 100 mg of 71a and 80 mg of 1-methyl-1H-benzimidazol-2-carboxylic acid in DMF.

¹H-NMR (400 MHz, DMSO-d₆): δ [ppm]= 1.22 - 1.43 (2H), 1.43 - 1.53 (1H), 1.59 - 1.70 (1H), 2.27 - 2.44 (1H), 2.53 (3H), 2.87 (1H), 3.11 (1H), 3.28 (3H), 3.36 - 3.42 (2H), 3.43 - 3.48 (2H), 3.83 (3H), 4.00 - 4.14 (1H), 4.39 (2H), 4.48 - 4.61 (1H), 7.18 (1H), 7.23 - 7.46 (3H), 7.58 - 7.74 (2H), 8.10 - 8.20 (1H), 8.53 (1H).

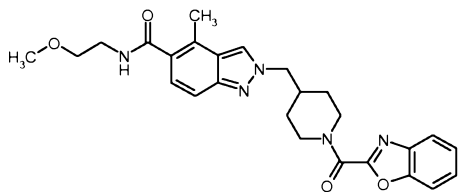
Example 339: N-(2-methoxyethyl)-4-methyl-2-({1-[(2-phenyloxazol-5-yl)carbonyl]piperidin-4-yl} methyl)-2H-indazol-5-carboxamide



Analogously to Example 1b, Version B, 30 mg of the title compound was obtained from 100 mg of 71a and 86 mg of 2-phenyloxazol-5-carboxylic acid in DMF.

¹H-NMR (400 MHz, DMSO-d₆): δ [ppm]= 1.14 - 1.48 (2H), 1.59 (2H), 2.24 - 2.46 (1H), 2.52 - 2.56 (3H), 2.71 - 3.01 (1H), 3.11 - 3.26 (1H), 3.28 (3H), 3.36 - 3.43 (2H), 3.43 - 3.50 (2H), 4.38 (4H), 7.19 (1H), 7.43 (1H), 7.52 - 7.67 (3H), 7.80 (1H), 7.97 - 8.05 (2H), 8.16 (1H), 8.53 (1H).

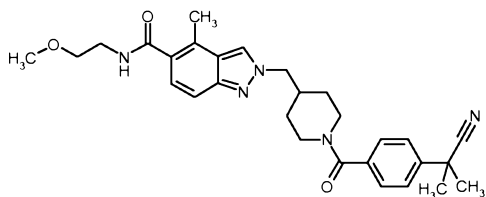
Example 340: 2-{{1-[(benzoxazol-2-yl)carbonyl]piperidin-4-yl} methyl}-N-(2-methoxyethyl)-4-methyl-2H-indazol-5-carboxamide



Analogously to Example 1b, Version B, 37 mg of the title compound was obtained from 100 mg of 71a and 84 mg of benzoxazol-2-carboxylic acid in DMF.

¹H-NMR (400 MHz, DMSO-d₆): δ [ppm]= 1.19 - 1.43 (2H), 1.48 - 1.73 (2H), 2.28 - 2.45 (1H),
 5 2.53 (3H), 2.91 (1H), 3.22 (1H), 3.33 - 3.57 (m, 7H), 4.25 - 4.60 (4H), 7.18 (1H), 7.36 - 7.62 (3H), 7.78 - 7.95 (2H), 8.16 (1H), 8.53 (1H).

Example 341: 2-({1-[4-(1-cyano-1-methylethyl)benzoyl]piperidin-4-yl}methyl)-N-(2-methoxyethyl)-4-methyl-2H-indazol-5-carboxamide

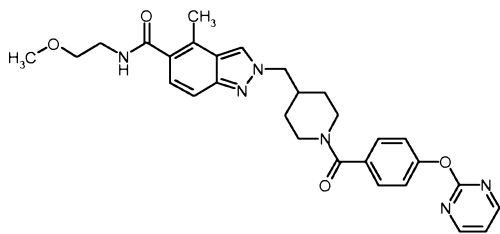


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Analogously to Example 1b, Version B, 20 mg of the title compound was obtained from 100 mg of 71a and 86 mg of 4-(1-cyano-1-methylethyl)benzoic acid in DMF.

¹H-NMR (300 MHz, DMSO-d₆): δ [ppm]= 1.17 - 1.34 (2H), 1.35 - 1.64 (2H), 1.70 (6H), 2.16 -
 2.40 (1H), 2.52 (3H), 2.64 - 3.13 (2H), 3.28 (3H), 3.40 (2H), 3.43 - 3.49 (2H), 3.49 - 3.67 (1H),
 15 4.35 (3H), 7.18 (1H), 7.42 (3H), 7.58 (2H), 8.15 (1H), 8.50 (1H).

Example 342: N-(2-methoxyethyl)-4-methyl-2-({1-[4-(pyrimidin-2-yloxy)benzoyl]piperidin-4-yl}methyl)-2H-indazol-5-carboxamide



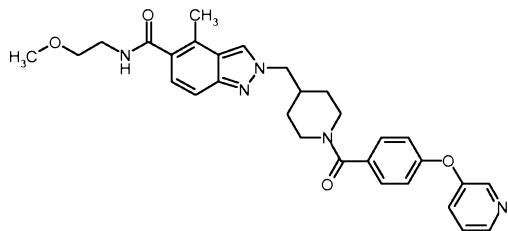
20

Analogously to Example 1b, Version B, 37 mg of the title compound was obtained from 100 mg of 71a and 98 mg of 4-(2-pyrimidin-2-yloxy)benzoic acid in DMF.

¹H-NMR (400 MHz, DMSO-d₆): δ [ppm]= 1.26 (2H), 1.38 - 1.66 (2H), 2.20 - 2.40 (1H), 2.52 -
 2.56 (3H), 2.70 - 3.16 (2H), 3.28 (3H), 3.36 - 3.43 (2H), 3.43 - 3.49 (2H), 3.64 - 3.77 (m, 1H),
 4.36 (3H), 7.18 (1H), 7.22 - 7.33 (3H), 7.39 - 7.49 (3H), 8.15 (1H), 8.43 - 8.57 (1H), 8.66 (2H).

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Example 343: N-(2-methoxyethyl)-4-methyl-2-({1-[4-(3-pyridyloxy)benzoyl]piperidin-4-yl} methyl)-2H-indazol-5-carboxamide

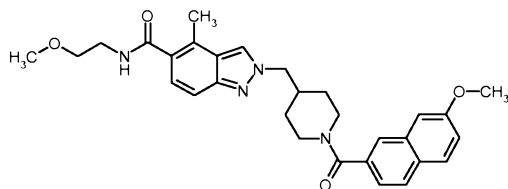


Analogously to Example 1b, Version B, 7 mg of the title compound was obtained from 75 mg of 71a and 73 mg of 4-(3-pyridyloxy)benzoic acid in DMF.

¹H-NMR (400 MHz, DMSO-d₆): δ [ppm]= 1.17 - 1.32 (2H), 1.35 - 1.69 (2H), 2.19 - 2.38 (1H), 2.52 (3H), 2.70 - 3.14 (2H), 3.28 (3H), 3.34 - 3.43 (2H), 3.43 - 3.51 (2H), 3.55 - 3.70 (1H), 4.35 (3H), 7.04 - 7.13 (2H), 7.18 (1H), 7.37 - 7.46 (3H), 7.47 - 7.54 (1H), 7.58 (1H), 8.15 (1H), 8.38 - 8.55 (3H).

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Example 344: N-(2-methoxyethyl)-2- { [1-(7-methoxy-2-naphthoyl)piperidin-4-yl]methyl} -4-methyl-2H-indazol-5-carboxamide

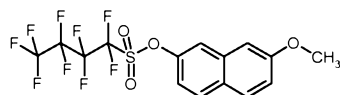


Analogously to Example 1b, Version B, 28 mg of the title compound was obtained from 75 mg of 71a and 69 mg of the carboxylic acid prepared in Example 344c) in DMF.

¹H-NMR (400 MHz, DMSO-d₆): δ [ppm]= 1.21 - 1.35 (2H), 1.37 - 1.75 (2H), 2.23 - 2.39 (1H), 2.52 (3H), 2.73 - 3.13 (2H), 3.28 (3H), 3.35 - 3.42 (2H), 3.45 (2H), 3.53 - 3.74 (1H), 3.88 (3H), 4.37 (3H), 7.13 - 7.25 (2H), 7.29 (1H), 7.36 - 7.48 (2H), 7.77 - 7.93 (3H), 8.15 (1H), 8.52 (1H).

20 The starting material was prepared as follows:

Example 344a: : 7-methoxynaphthalen-2-yl-1,1,2,2,3,3,4,4,4-nonafluorobutan-1-sulphonate



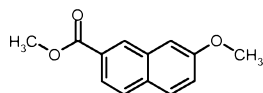
5.12 g of 7-methoxy-2-naphthol were dissolved in 50 ml toluene and cooled to 0°C. 30.7 ml of N,N-diisopropylethylamine and 17.6 ml of nonafluorobutanesulphonyl fluoride were successively added dropwise to this and the reaction mixture was then stirred at room temperature until complete conversion. The reaction mixture was poured into 600 ml of saturated ammonium chloride solution, the deposited brown oil separated and the aqueous phase

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extracted several times with ethyl acetate. The combined organic phases were washed with water and saturated sodium chloride solution, dried and concentrated. The residue was purified by column chromatography on silica gel using a hexane/ ethyl acetate gradient. Yield: 11.45 g of the title compound.

- 5 ¹H-NMR (400 MHz, DMSO-d₆): δ [ppm]= 3.89 (3H), 7.28 (1H), 7.41 (1H), 7.52 (1H), 7.90 - 8.00 (2H), 8.05 (1H).

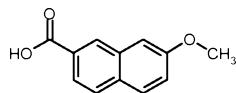
Example 344b: Methyl 7-methoxynaphthalen-2-carboxylate



- 10 Analogously to Example 1e, 2.34 g of the title compound was obtained from 11.0 g of 344a and 8.8 ml of methanol.

¹H-NMR (400 MHz, DMSO-d₆): δ [ppm]= 3.89 (3H), 3.91 (3H), 7.31 (1H), 7.57 (1H), 7.82 (1H), 7.94 (2H), 8.54 (1H).

- 15 **Example 344c:** 7-methoxynaphthalen-2-carboxylic acid

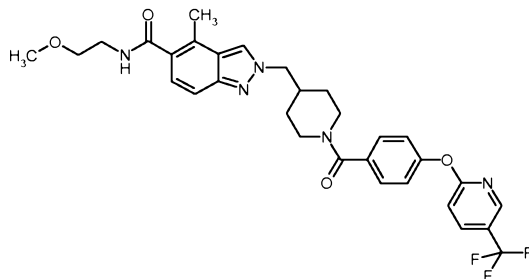


Analogously to Example 258d, 1.27 g of the title compound was obtained from 2.0 g of 344b.

¹H-NMR (300 MHz, DMSO-d₆): δ [ppm]= 3.89 (3H), 7.30 (1H), 7.53 (1H), 7.78 - 7.86 (1H), 7.87 - 8.01 (2H), 8.50 (1H), 12.99 (1H).

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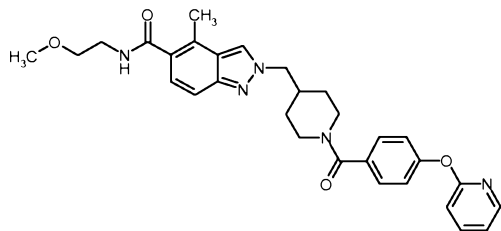
Example 345: N-(2-methoxyethyl)-4-methyl-2- {[1-(4- {[5-(trifluoromethyl)pyridin-2-yl]oxy}benzoyl)piperidin-4-yl]methyl} -2H-indazol-5-carboxamide



- 25 Analogously to Example 1b, Version B, 221 mg of the title compound was obtained from 200 mg of 71a and 232 mg of 4- {[5-(trifluoromethyl)pyridin-2-yl]oxy}benzoic acid in DMF.

¹H-NMR (400 MHz, DMSO-d₆): δ [ppm]= 1.21 - 1.34 (2H), 1.36 - 1.72 (2H), 2.23 - 2.39 (1H), 2.53 (3H), 2.89 (2H), 3.31 (3H), 3.36 - 3.43 (2H), 3.43 - 3.50 (2H), 3.53 - 3.86 (1H), 4.36 (3H), 7.18 (1H), 7.23 - 7.33 (3H), 7.37 - 7.50 (3H), 8.13 (1H), 8.25 (1H), 8.51 (1H), 8.55 - 8.63 (1H).

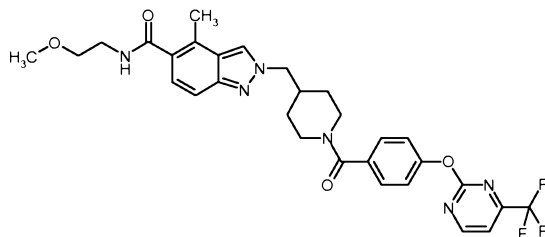
Example 346: N-(2-methoxyethyl)-4-methyl-2-({1-[4-(2-pyridyloxy)benzoyl]piperidin-4-yl}-methyl)-2H-indazol-5-carboxamide



Analogously to Example 1b, Version B, 29 mg of the title compound was obtained from 100 mg of 71a and 98 mg of 4-(2-pyridyloxy)benzoic acid in DMF.

¹H-NMR (400 MHz, DMSO-d₆): δ [ppm]= 1.23 (2H), 1.39 - 1.68 (2H), 2.24 - 2.39 (1H), 2.52 - 2.56 (3H), 2.71 - 3.13 (2H), 3.28 (3H), 3.36 - 3.43 (2H), 3.45 (2H), 3.53 - 3.87 (1H), 4.36 (3H), 7.08 (1H), 7.13 - 7.26 (4H), 7.34 - 7.52 (3H), 7.88 (1H), 8.07 - 8.23 (2H), 8.51 (1H).

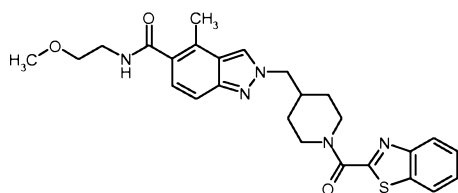
Example 347: N-(2-methoxyethyl)-4-methyl-2-{{1-[4-{{4-(trifluoromethyl)pyrimidin-2-yl}oxy}benzoyl]piperidin-4-yl}methyl}-2H-indazol-5-carboxamide



Analogously to Example 1b, Version B, 11 mg of the title compound was obtained from 75 mg of 71a and 97 mg of 4-{{4-(trifluoromethyl)pyrimidin-2-yl}oxy}benzoic acid in DMF.

¹H-NMR (400 MHz, DMSO-d₆): δ [ppm]= 1.23 (2H), 1.37 - 1.69 (2H), 2.19 - 2.39 (1H), 2.53 (3H), 2.68 - 3.18 (2H), 3.28 (3H), 3.36 - 3.43 (2H), 3.45 (2H), 3.51 - 3.79 (1H), 4.36 (3H), 7.18 (1H), 7.31 - 7.39 (2H), 7.39 - 7.53 (3H), 7.81 (1H), 8.15 (1H), 8.51 (1H), 9.00 (1H).

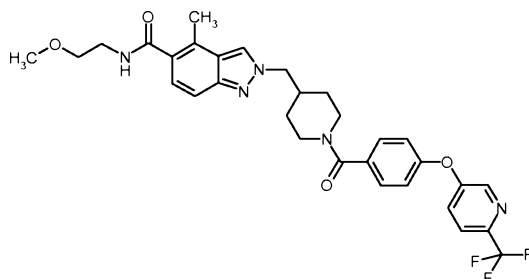
Example 348: 2-{{1-(benzothiazol-2-ylcarbonyl)piperidin-4-yl}methyl}-N-(2-methoxyethyl)-4-methyl-2H-indazol-5-carboxamide



Analogously to Example 1b, Version B, 28 mg of the title compound was obtained from 75 mg of 71a and 61 mg of benzothiazol-2-carboxylic acid in DMF.

¹H-NMR (300 MHz, DMSO-d₆): δ [ppm]= 1.34 (2H), 1.62 (2H), 2.32 - 2.45 (1H), 2.53 (3H), 2.82 - 3.00 (1H), 3.26 (1H), 3.28 (3H), 3.40 (2H), 3.43 - 3.50 (2H), 4.38 (3H), 4.98 - 5.23 (1H), 7.19 (1H), 7.43 (1H), 7.59 (2H), 8.01 - 8.30 (3H), 8.53 (1H).

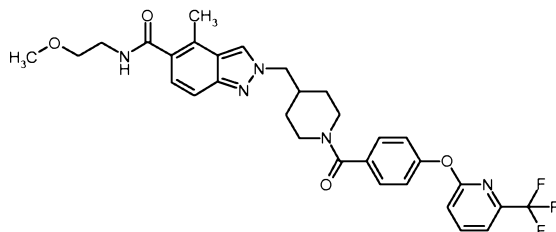
- 5 **Example 349:** N-(2-methoxyethyl)-4-methyl-2- {[1-(4- {[6-(trifluoromethyl)pyridin-3-yl]oxy} - benzoyl)piperidin-4-yl]methyl}-2H-indazol-5-carboxamide



Analogously to Example 1b, Version B, 34 mg of the title compound was obtained from 75 mg of 71a and 96 mg of 303b in DMF.

- 10 ¹H-NMR (400 MHz, DMSO-d₆): δ [ppm]= 1.24 (2H), 1.37 - 1.68 (2H), 2.22 - 2.38 (1H), 2.53 (3H), 2.71 - 3.14 (2H), 3.28 (3H), 3.36 - 3.43 (2H), 3.44 - 3.49 (2H), 3.52 - 3.84 (1H), 4.36 (3H), 7.09 - 7.29 (3H), 7.35 - 7.53 (3H), 7.65 (1H), 7.92 (1H), 8.13 (1H), 8.51 (1H), 8.60 (1H).

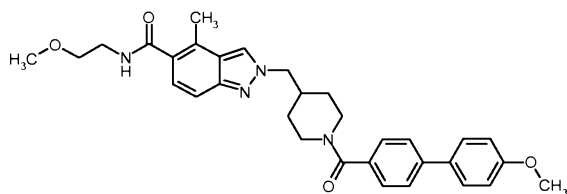
- 15 **Example 350:** N-(2-methoxyethyl)-4-methyl-2- {[1-(4- {[6-(trifluoromethyl)pyridin-2-yl]oxy} - benzoyl)piperidin-4-yl]methyl}-2H-indazol-5-carboxamide



Analogously to Example 1b, Version B, 36 mg of the title compound was obtained from 100 mg of 71a and 129 mg of 4- {[6-(trifluoromethyl)pyridin-2-yl]oxy} benzoic acid in DMF.

- 20 ¹H-NMR (400 MHz, DMSO-d₆): δ [ppm]= 1.20 - 1.34 (2H), 1.36 - 1.66 (2H), 2.24 - 2.39 (1H), 2.53 (3H), 2.70 - 3.16 (2H), 3.28 (3H), 3.36 - 3.43 (2H), 3.44 - 3.49 (2H), 3.53 - 3.82 (1H), 4.36 (3H), 7.18 (1H), 7.22 - 7.30 (2H), 7.32 - 7.50 (4H), 7.67 (1H), 8.06 - 8.21 (2H), 8.51 (1H).

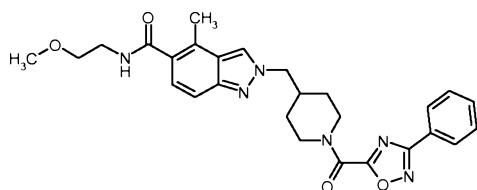
Example 351: 2-({1-[(4'-methoxybiphenyl-4-yl)carbonyl]piperidin-4-yl}methyl)-N-(2-methoxyethyl)-4-methyl-2H-indazol-5-carboxamide



Analogously to Example 1b, Version B, 15 mg of the title compound was obtained from 100 mg of 71a and 104 mg of 4'-methoxy-biphenyl-4-carboxylic acid in DMF.

¹H-NMR (300 MHz, DMSO-d₆): δ [ppm]= 1.24 (2H), 1.37 - 1.64 (2H), 2.19 - 2.32 (1H), 2.53 (3H), 2.74 - 3.10 (2H), 3.28 (3H), 3.40 (2H), 3.45 (2H), 3.67 - 3.91 (4H), 4.21 - 4.64 (3H), 7.04 (2H), 7.19 (1H), 7.41 (2H), 7.66 (5H), 8.04 - 8.22 (1H), 8.51 (1H).

Example 352: N-(2-methoxyethyl)-4-methyl-2-({1-[(3-phenyl-1,2,4-oxadiazol-5-yl)carbonyl]-piperidin-4-yl} methyl)-2H-indazol-5-carboxamide



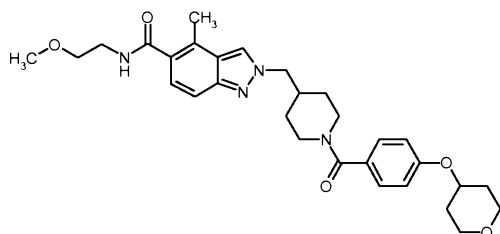
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Analogously to Example 1b, Version B, 12 mg of the title compound was obtained from 100 mg of 71a and 78 mg of 3-phenyl-1,2,4-oxadiazol-5-carboxylic acid in DMF.

¹H-NMR (300 MHz, DMSO-d₆): δ [ppm]= 1.33 (2H), 1.50 - 1.72 (2H), 2.31 - 2.45 (1H), 2.53 (3H), 2.86 - 3.04 (1H), 3.16 - 3.26 (1H), 3.28 (3H), 3.41 (2H), 3.43 - 3.51 (2H), 3.94 - 4.13 (1H), 4.28 - 4.55 (3H), 7.19 (1H), 7.43 (1H), 7.52 - 7.72 (3H), 7.96 - 8.09 (2H), 8.13 (1H), 8.52 (1H).

15

Example 353: N-(2-methoxyethyl)-4-methyl-2-({1-[4-(3,4,5,6-tetrahydro-2H-pyran-4-yloxy)-benzoyl]piperidin-4-yl} methyl)-2H-indazol-5-carboxamide



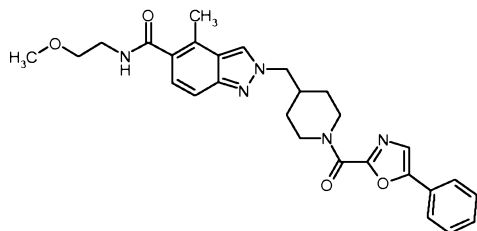
20

Analogously to Example 1b, Version B, 21 mg of the title compound was obtained from 100 mg of 71a and 91 mg of 4-(3,4,5,6-tetrahydro-2H-pyran-4-yloxy)benzoic acid in DMF.

¹H-NMR (300 MHz, DMSO-d₆): δ [ppm]= 1.23 (2H), 1.38 - 1.70 (4H), 1.97 (2H), 2.18 - 2.41 (1H), 2.53 (3H), 2.75 - 3.02 (2H), 3.28 (3H), 3.35 - 3.54 (8H), 3.84 (2H), 4.35 (2H), 4.52 - 4.77 (1H), 7.00 (2H), 7.18 (1H), 7.30 (2H), 7.42 (1H), 8.13 (1H), 8.50 (1H).

25

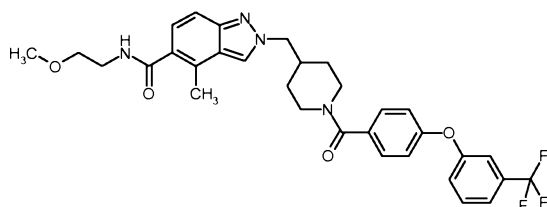
Example 354: N-(2-methoxyethyl)-4-methyl-2-({1-[(5-phenyloxazol-2-yl)carbonyl]piperidin-4-yl} methyl)-2H-indazol-5-carboxamide



Analogously to Example 1b, Version B, 10 mg of the title compound was obtained from 100 mg of 71a and 77 mg of 5-phenyl-oxazol-2-carboxylic acid in DMF.

¹H-NMR (400 MHz, DMSO-d₆): δ [ppm]= 1.17 - 1.41 (2H), 1.59 (2H), 2.28 - 2.45 (1H), 2.52 - 2.56 (3H), 2.85 (1H), 3.20 (1H), 3.28 (3H), 3.36 - 3.43 (2H), 3.44 - 3.50 (2H), 4.38 (3H), 4.57 - 4.74 (1H), 7.19 (1H), 7.39 - 7.57 (4H), 7.74 - 7.82 (2H), 7.88 (1H), 8.13 (1H), 8.52 (1H).

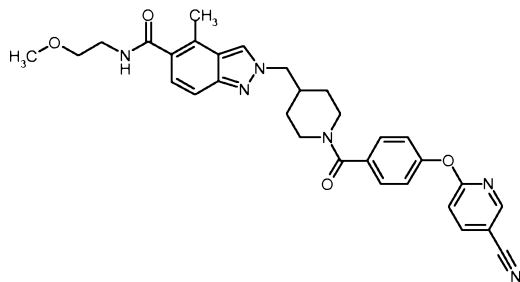
Example 355: N-(2-methoxyethyl)-4-methyl-2-[(1-{4-[3-(trifluoromethyl)phenoxy]benzoyl}piperidin-4-yl)methyl]-2H-indazol-5-carboxamide



Analogously to Example 1b, Version B, 40 mg of the title compound was obtained from 100 mg of 71a and 115 mg of 4-[3-(trifluoromethyl)phenoxy]benzoic acid in DMF.

¹H-NMR (400 MHz, DMSO-d₆): δ [ppm]= 1.23 (2H), 1.35 - 1.65 (2H), 2.19 - 2.38 (1H), 2.52 - 2.56 (3H), 2.71 - 3.12 (2H), 3.28 (3H), 3.36 - 3.43 (2H), 3.43 - 3.50 (2H), 3.53 - 3.87 (1H), 4.35 (3H), 7.07 - 7.15 (2H), 7.18 (1H), 7.30 - 7.48 (5H), 7.54 (1H), 7.64 (1H), 8.13 (1H), 8.50 (1H).

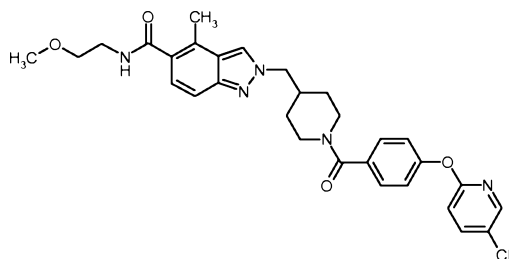
Example 356: 2-[(1-{4-[(5-cyanopyridin-2-yl)oxy]benzoyl}piperidin-4-yl)methyl]-N-(2-methoxyethyl)-4-methyl-2H-indazol-5-carboxamide



Analogously to Example 1b, Version B, 15 mg of the title compound was obtained from 100 mg of 71a and 98 mg of 4-[(5-cyanopyridin-2-yl)oxy]benzoic acid in DMF.

¹H-NMR (400 MHz, DMSO-d₆): δ [ppm]= 1.21 - 1.35 (2H), 1.36 - 1.75 (2H), 2.23 - 2.39 (1H), 2.53 (3H), 2.69 - 3.19 (2H), 3.28 (3H), 3.36 - 3.43 (2H), 3.46 (2H), 3.53 - 3.85 (1H), 4.36 (3H), 7.18 (1H), 7.23 - 7.33 (3H), 7.36 - 7.53 (3H), 8.13 (1H), 8.34 (1H), 8.51 (1H), 8.66 (1H).

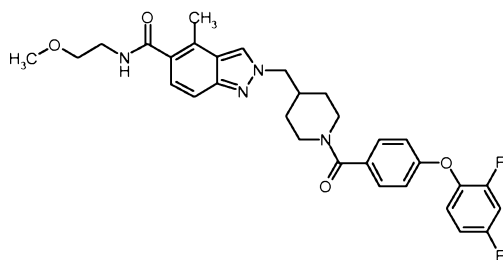
- 5 **Example 357:** 2-[(1-{4-[(5-chloropyridin-2-yl)oxy]benzoyl}piperidin-4-yl)methyl]-N-(2-methoxyethyl)-4-methyl-2H-indazol-5-carboxamide



Analogously to Example 1b, Version B, 40 mg of the title compound was obtained from 100 mg of 71a and 102 mg of 4-[(5-chloropyridin-2-yl)oxy]benzoic acid in DMF.

- 10 ¹H-NMR (300 MHz, DMSO-d₆): δ [ppm]= 1.25 (2H), 1.36 - 1.70 (2H), 2.20 - 2.39 (1H), 2.53 (3H), 2.66 - 3.15 (2H), 3.28 (3H), 3.40 (2H), 3.43 - 3.50 (2H), 3.55 - 3.90 (1H), 4.36 (3H), 7.08 - 7.28 (4H), 7.42 (3H), 7.99 (1H), 8.10 - 8.30 (2H), 8.51 (1H).

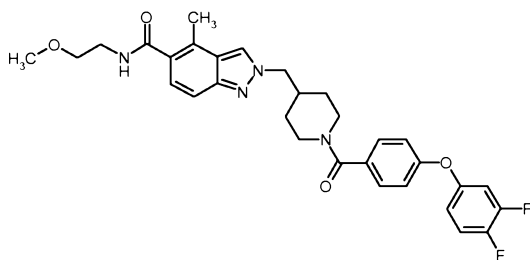
- 15 **Example 358:** 2-({1-[4-(2,4-difluorophenoxy)benzoyl]piperidin-4-yl}methyl)-N-(2-methoxyethyl)-4-methyl-2H-indazol-5-carboxamide



Analogously to Example 1b, Version B, 22 mg of the title compound was obtained from 100 mg of 71a and 102 mg of 4-(2,4-difluorophenoxy)benzoic acid in DMF.

- 20 ¹H-NMR (400 MHz, DMSO-d₆): δ [ppm]= 1.21 (2H), 1.33 - 1.76 (2H), 2.20 - 2.39 (1H), 2.52 (3H), 2.69 - 3.13 (2H), 3.28 (3H), 3.36 - 3.43 (2H), 3.43 - 3.50 (2H), 3.53 - 3.90 (1H), 4.35 (3H), 6.91 - 7.04 (2H), 7.11 - 7.22 (2H), 7.30 - 7.46 (4H), 7.51 (1H), 8.13 (1H), 8.50 (1H).

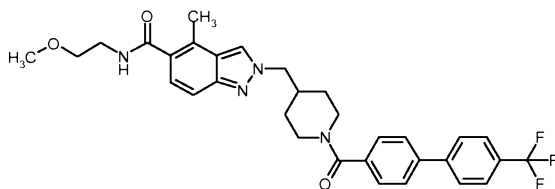
Example 359: 2-({1-[4-(3,4-difluorophenoxy)benzoyl]piperidin-4-yl}methyl)-N-(2-methoxyethyl)-4-methyl-2H-indazol-5-carboxamide



Analogously to Example 1b, Version B, 23 mg of the title compound was obtained from 100 mg of 71a and 102 mg of 4-(3,4-difluorophenoxy)benzoic acid in DMF.

¹H-NMR (300 MHz, DMSO-d₆): δ [ppm]= 1.17 - 1.30 (2H), 1.35 - 1.70 (2H), 2.20 - 2.40 (1H),
 5 2.52 (3H), 2.74 - 3.14 (2H), 3.28 (3H), 3.40 (2H), 3.43 - 3.51 (2H), 3.52 - 3.89 (1H), 4.35 (3H),
 6.94 (1H), 7.05 (2H), 7.18 (1H), 7.30 (1H), 7.36 - 7.59 (4H), 8.15 (1H), 8.51 (1H).

Example 360: N-(2-methoxyethyl)-4-methyl-2-[(1-{[4'-(trifluoromethyl)biphenyl-4-yl]-carbonyl}piperidin-4-yl)methyl]-2H-indazol-5-carboxamide

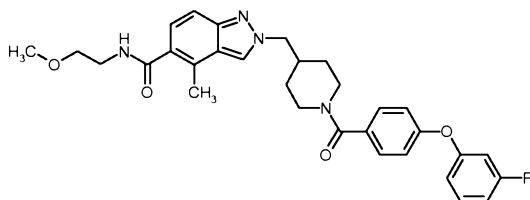


Analogously to Example 1b, Version B, 44 mg of the title compound was obtained from 100 mg of 71a and 109 mg of 4'-(trifluoromethyl)biphenyl-4-carboxylic acid in DMF

LC-MS: R_t = 1.28 min, MS (ES⁺): m/z = 579 (M+H)⁺.

15

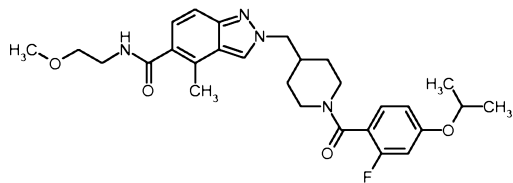
Example 361: 2-(1-[4-(3-fluorophenoxy)benzoyl]piperidin-4-yl)methyl)-N-(2-methoxyethyl)-4-methyl-2H-indazol-5-carboxamide



Analogously to Example 1b, Version B, 43 mg of the title compound was obtained from 100 mg of 71a and 95 mg of 4-(3-fluorophenoxy)benzoic acid in DMF.

¹H-NMR (400 MHz, DMSO-d₆): δ [ppm]= 1.17 - 1.31 (2H), 1.33 - 1.69 (2H), 2.19 - 2.38 (1H),
 20 2.52 (3H), 2.70 - 3.11 (2H), 3.28 (3H), 3.36 - 3.43 (2H), 3.43 - 3.49 (2H), 3.54 - 3.85 (1H), 4.35
 (3H), 6.85 - 7.13 (5H), 7.18 (1H), 7.35 - 7.55 (4H), 8.15 (1H), 8.51 (1H).

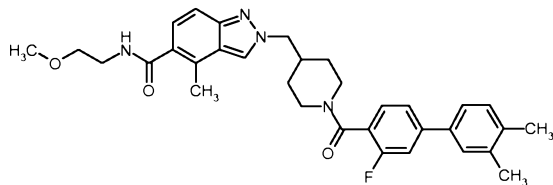
Example 362: 2-([1-(2-fluoro-4-isopropoxybenzoyl)piperidin-4-yl]methyl)-N-(2-methoxyethyl)-4-methyl-2H-indazol-5-carboxamide



Analogously to Example 1b, Version B, 31 mg of the title compound was obtained from 75 mg of 71a and 41 mg of 2-fluoro-4-isopropoxybenzoic acid.

¹H-NMR (300 MHz, chloroform-d): δ [ppm]= 1.21 - 1.42 (8H), 1.51 (1H), 1.69 (1H), 2.38 (1H), 2.56 - 2.80 (4H), 2.87 - 3.08 (1H), 3.36 (3H), 3.48 - 3.73 (4H), 4.28 (2H), 4.51 (1H), 4.74 (1H), 5.28 (1H), 6.19 (1H), 6.54 (1H), 6.67 (1H), 7.13 - 7.38 (2H), 7.50 (1H), 7.94 (1H).

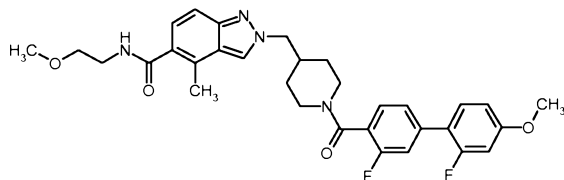
Example 363: 2-([1-[(3-fluoro-3',4'-dimethylbiphenyl-4-yl)carbonyl]piperidin-4-yl]methyl)-N-(2-methoxyethyl)-4-methyl-2H-indazol-5-carboxamide



Analogously to Example 1b, Version B, 35 mg of the title compound was obtained from 75 mg of 71a and 50 mg of 3-fluoro-3',4'-dimethylbiphenyl-4-carboxylic acid.

¹H-NMR (300 MHz, chloroform-d): δ [ppm]= 1.25 - 1.51 (2H), 1.57 (1H), 1.76 (1H), 2.25 - 2.37 (6H), 2.45 (1H), 2.61 - 2.71 (3H), 2.79 (1H), 3.06 (1H), 3.40 (3H), 3.53 - 3.77 (5H), 4.34 (2H), 4.83 (1H), 6.04 - 6.30 (1H), 7.15 - 7.47 (7H), 7.55 (1H), 7.98 (1H).

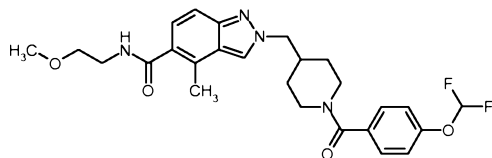
Example 364: 2-([1-[(2',3'-difluoro-4'-methoxybiphenyl-4-yl)carbonyl]piperidin-4-yl]methyl)-N-(2-methoxyethyl)-4-methyl-2H-indazol-5-carboxamide



Analogously to Example 1b, Version B, 28 mg of the title compound was obtained from 90 mg of 71a and 65 mg of 3,2'-difluoro-4'-methoxybiphenyl-4-carboxylic acid.

¹H-NMR (300 MHz, chloroform-d): δ [ppm]= 1.25 - 1.50 (2H), 1.50 - 1.84 (2H), 2.44 (1H), 2.66 (3H), 2.78 (1H), 3.03 (1H), 3.39 (3H), 3.53 - 3.76 (5H), 3.85 (3H), 4.23 - 4.45 (2H), 4.83 (1H), 6.17 (1H), 6.64 - 6.92 (2H), 7.18 - 7.48 (5H), 7.54 (1H), 7.97 (1H).

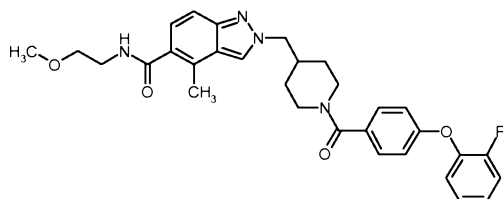
Example 365: 2-(1-[4-(difluoromethoxy)benzoyl]piperidin-4-yl)methyl)-N-(2-methoxyethyl)-4-methyl-2H-indazol-5-carboxamide



Analogously to Example 1b, Version B, 23 mg of the title compound was obtained from 75 mg of 71a and 38 mg of 4-(difluoromethoxy)benzoic acid.

¹H-NMR (300 MHz, chloroform-d): δ [ppm] = 1.26 (2H), 1.59 (2H), 2.26 - 2.49 (1H), 2.62 (3H), 2.84 (2H), 3.36 (3H), 3.43 (1H), 3.50 - 3.96 (4H), 4.29 (2H), 4.46 - 5.02 (1H), 6.13 - 6.25 (1H), 6.26 - 6.82 (1H), 7.11 (2H), 7.22 - 7.43 (3H), 7.50 (1H), 7.93 (1H).

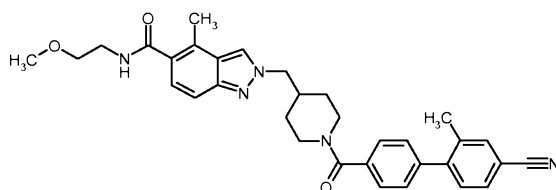
Example 366: 2-(1-[4-(2-fluorophenoxy)benzoyl]piperidin-4-yl)methyl)-N-(2-methoxyethyl)-4-methyl-2H-indazol-5-carboxamide



120 mg of compound 54, 26 mg of o-fluorophenol, 152 mg of caesium carbonate, 6.7 mg of copper(I) bromide and 3.2 mg of (2-pyridyl)acetone were suspended in 6 ml dimethyl sulfoxide and stirred for 3 days at 80°C. The reaction mixture was filtered, the filter cake washed with water and ethyl acetate, and the aqueous phase extracted several times with ethyl acetate. The combined organic phases were dried with sodium sulphate and concentrated. The residue was purified by HPLC and 12 mg of the title compound was obtained.

¹H-NMR (300 MHz, chloroform-d): δ [ppm] = 1.16 - 1.47 (2H), 1.62 (2H), 2.43 (1H), 2.66 (3H), 2.85 (2H), 3.39 (3H), 3.53 - 3.74 (4H), 3.79 - 4.19 (1H), 4.33 (2H), 4.47 - 5.02 (1H), 6.15 (1H), 6.96 (2H), 7.07 - 7.23 (3H), 7.30 - 7.45 (3H), 7.54 (1H), 7.96 (1H).

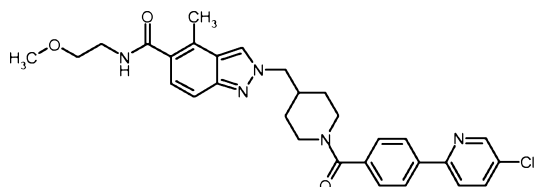
Example 367: 2-(1-[4'-(4-cyano-2'-methylbiphenyl-4-yl)carbonyl]piperidin-4-yl)methyl)-N-(2-methoxyethyl)-4-methyl-2H-indazol-5-carboxamide



Analogously to Example 317, 40 mg of the title compound was obtained from 80 mg of 54 and 38 mg of (2-methyl-4-cyanophenyl)boronic acid under reflux.

¹H-NMR (400 MHz, DMSO-d₆): δ [ppm]= 1.20 - 1.34 (2H), 1.36 - 1.69 (2H), 2.28 (4H), 2.53 (3H), 2.69 - 3.19 (2H), 3.28 (3H), 3.36 - 3.43 (2H), 3.43 - 3.50 (2H), 3.54 - 3.77 (1H), 4.37 (3H), 7.18 (1H), 7.37 - 7.50 (6H), 7.74 (1H), 7.83 (1H), 8.15 (1H), 8.52 (1H).

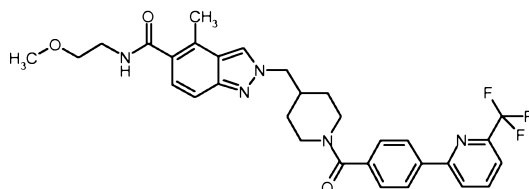
- 5 **Example 368:** 2-({1-[4-(5-chloropyridin-2-yl)benzoyl]piperidin-4-yl} methyl)-N-(2-methoxyethyl)-4-methyl-2H-indazol-5-carboxamide



200 mg of the aryl bromide prepared in Example 54 together with 187 mg of (5-chloropyridin-2-yl)-2-boronic acid pinacol ester were first placed in 3 ml DMF, treated with 48 mg of 1,1'-bis(diphenylphosphino)ferrocenodichloropalladium(II), 39 mg of copper(I)chloride 254 mg of caesium carbonate and 22 mg of 1,1'-bis(diphenylphosphino)ferrocene and heated for ca. 1 day at 70°C, until further progress of the reaction could no longer be observed. The reaction mixture was treated with water and saturated sodium hydrogen carbonate solution, treated several times with ethyl acetate, and the combined organic phases dried with sodium sulphate and concentrated. After HPLC purification, this yielded 92 mg of the title compound.

¹H-NMR (400 MHz, DMSO-d₆): δ [ppm]= 1.19 - 1.36 (2H), 1.37 - 1.72 (2H), 2.23 - 2.41 (1H), 2.52 - 2.57 (3H), 2.70 - 3.13 (2H), 3.28 (3H), 3.39 (2H), 3.45 (2H), 3.51 - 3.80 (1H), 4.36 (3H), 7.18 (1H), 7.36 - 7.52 (3H), 8.05 (2H), 8.09 - 8.22 (3H), 8.51 (1H), 8.73 (1H).

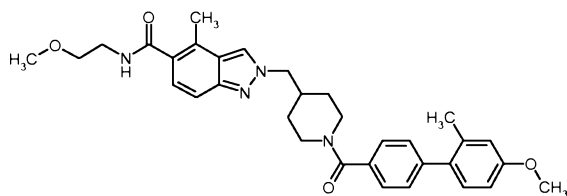
- 20 **Example 369:** N-(2-methoxyethyl)-4-methyl-2-[(1-{4-[6-(trifluoromethyl)pyridin-2-yl]benzoyl}piperidin-4-yl)methyl]-2H-indazol-5-carboxamide



Analogously to Example 317, 33 mg of the title compound was obtained from 100 mg of 54 and 80 mg of [6-(trifluoromethyl)pyridin-2-yl]boronic acid pinacol ester under reflux.

¹H-NMR (400 MHz, DMSO-d₆): δ [ppm]= 1.18 - 1.35 (2H), 1.36 - 1.67 (2H), 2.25 - 2.41 (1H), 2.53 (3H), 2.70 - 3.15 (2H), 3.28 (3H), 3.35 - 3.43 (2H), 3.43 - 3.51 (2H), 3.53 - 3.73 (1H), 4.37 (3H), 7.18 (1H), 7.42 (1H), 7.53 (2H), 7.89 (1H), 8.06 - 8.26 (4H), 8.33 (1H), 8.51 (1H).

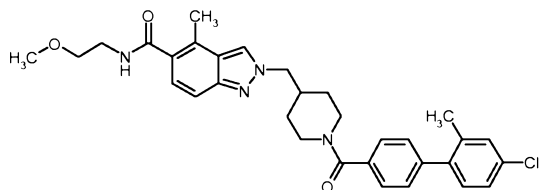
- 30 **Example 370:** N-(2-methoxyethyl)-2-({1-[(4'-methoxy-2'-methylbiphenyl-4-yl)carbonyl]piperidin-4-yl} methyl)-4-methyl-2H-indazol-5-carboxamide



Analogously to Example 317, 52 mg of the title compound was obtained from 100 mg of 54 and 48 mg of (4-methoxy-2-methylphenyl)boronic acid under reflux.

¹H-NMR (400 MHz, DMSO-d₆): δ [ppm]= 1.16 - 1.35 (2H), 1.37 - 1.67 (2H), 2.23 (3H), 2.26 - 2.42 (1H), 2.53 (3H), 2.70 - 3.12 (2H), 3.28 (3H), 3.36 - 3.43 (2H), 3.43 - 3.50 (2H), 3.77 (4H), 4.36 (3H), 6.77 - 6.92 (2H), 7.10 - 7.22 (2H), 7.39 (5H), 8.15 (1H), 8.52 (1H).

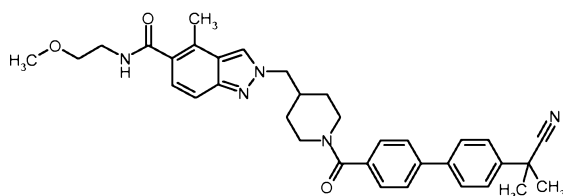
Example 371: 2-({1-[(4'-chloro-2'-methylbiphenyl-4-yl)carbonyl]piperidin-4-yl} methyl)-N-(2-methoxyethyl)-4-methyl-2H-indazol-5-carboxamide



Analogously to Example 317, 43 mg of the title compound was obtained from 100 mg of 54 and 50 mg of (4-chloro-2-methylphenyl)boronic acid under reflux.

¹H-NMR (400 MHz, DMSO-d₆): δ [ppm]= 1.27 (2H), 1.38 - 1.70 (2H), 2.23 (4H), 2.53 (3H), 2.70 - 3.15 (2H), 3.28 (3H), 3.36 - 3.43 (2H), 3.43 - 3.49 (2H), 3.55 - 3.84 (1H), 4.36 (3H), 7.12 - 7.27 (2H), 7.28 - 7.35 (1H), 7.36 - 7.47 (6H), 8.15 (1H), 8.52 (1H).

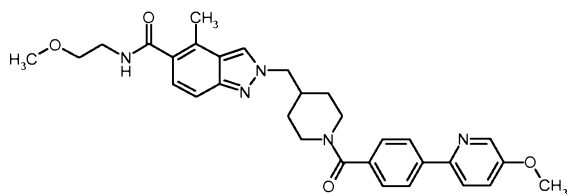
Example 372: 2-[(1-{[4'-(1-cyano-1-methylethyl)biphenyl-4-yl]carbonyl} piperidin-4-yl)-methyl]-N-(2-methoxyethyl)-4-methyl-2H-indazol-5-carboxamide



Analogously to Example 317, 67 mg of the title compound was obtained from 100 mg of 54 and 55 mg of [4-(1-cyano-1-methylethyl)phenyl]boronic acid under reflux.

¹H-NMR (400 MHz, DMSO-d₆): δ [ppm]= 1.28 (2H), 1.36 - 1.65 (2H), 1.72 (6H), 2.24 - 2.40 (1H), 2.53 (3H), 2.70 - 3.14 (2H), 3.28 (3H), 3.36 - 3.43 (2H), 3.43 - 3.49 (2H), 3.54 - 3.77 (1H), 4.36 (3H), 7.18 (1H), 7.38 - 7.50 (3H), 7.62 (2H), 7.75 (4H), 8.15 (1H), 8.52 (1H).

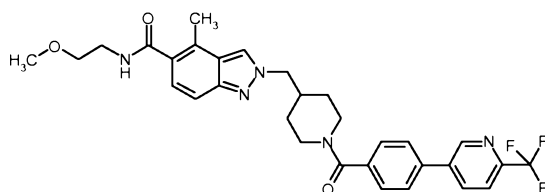
Example 373: N-(2-methoxyethyl)-2-({1-[4-(5-methoxypyridin-2-yl)benzoyl]piperidin-4-yl}-methyl)-4-methyl-2H-indazol-5-carboxamide



Analogously to Example 368, 12 mg of the title compound was obtained from 200 mg of 54 and 183 mg of (5-methoxypyridin-2-yl)boronic acid pinacol ester under reflux.

¹H-NMR (400 MHz, DMSO-d₆): δ [ppm]= 1.22 - 1.33 (2H), 1.36 - 1.66 (2H), 2.23 - 2.38 (1H),
 5 2.53 (3H), 2.68 - 3.12 (2H), 3.28 (3H), 3.35 - 3.42 (2H), 3.43 - 3.50 (2H), 3.54 - 3.78 (1H), 3.88
 (3H), 4.36 (3H), 7.18 (1H), 7.36 - 7.55 (4H), 7.96 (1H), 8.07 (2H), 8.13 (1H), 8.39 (1H), 8.51
 (1H).

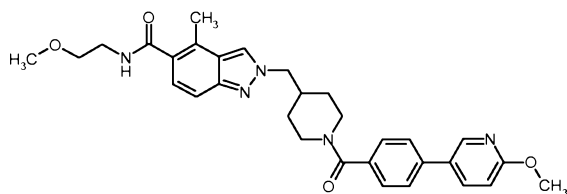
Example 374: N-(2-methoxyethyl)-4-methyl-2-[(1-{4-[6-(trifluoromethyl)pyridin-3-yl]-
 10 benzoyl}piperidin-4-yl)methyl]-2H-indazol-5-carboxamide



Analogously to Example 317, 37 mg of the title compound was obtained from 100 mg of 54 and 56 mg of [2-(trifluoromethyl)pyridin-5-yl]boronic acid under reflux.

¹H-NMR (400 MHz, DMSO-d₆): δ [ppm]= 1.19 - 1.36 (2H), 1.36 - 1.69 (2H), 2.21 - 2.42 (1H),
 15 2.53 (3H), 2.70 - 3.14 (2H), 3.28 (3H), 3.36 - 3.43 (2H), 3.43 - 3.50 (2H), 3.53 - 3.72 (1H), 4.36
 (3H), 7.18 (1H), 7.42 (1H), 7.53 (2H), 7.89 (2H), 8.01 (1H), 8.15 (1H), 8.41 (1H), 8.52 (1H),
 9.13 (1H).

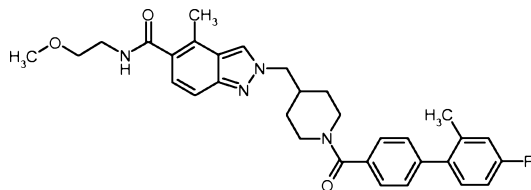
Example 375: N-(2-methoxyethyl)-2-({1-[4-(6-methoxypyridin-3-yl)benzoyl]piperidin-4-yl}-
 20 methyl)-4-methyl-2H-indazol-5-carboxamide



Analogously to Example 317, 50 mg of the title compound was obtained from 100 mg of 54 and 47 mg of (2-methoxypyridin-5-yl)boronic acid under reflux.

¹H-NMR (400 MHz, DMSO-d₆): δ [ppm]= 1.26 (2H), 1.34 - 1.70 (2H), 2.21 - 2.40 (1H), 2.53
 25 (3H), 2.69 - 3.15 (2H), 3.28 (3H), 3.36 - 3.43 (2H), 3.43 - 3.49 (2H), 3.51 - 3.79 (1H), 3.90 (3H),
 4.36 (3H), 6.93 (1H), 7.18 (1H), 7.36 - 7.52 (3H), 7.72 (2H), 8.05 (1H), 8.15 (1H), 8.46 - 8.57
 (2H).

Example 376: 2-({1-[(4'-fluoro-2'-methylbiphenyl-4-yl)carbonyl]piperidin-4-yl} methyl)-N-(2-methoxyethyl)-4-methyl-2H-indazol-5-carboxamide

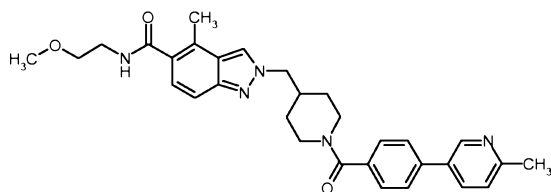


5 Analogously to Example 317, 261 mg of the title compound was obtained from 300 mg of 54 and 135 mg of (4-fluoro-2-methylphenyl)boronic acid under reflux.

¹H-NMR (400 MHz, DMSO-d₆): δ [ppm]= 1.27 (2H), 1.37 - 1.70 (2H), 2.24 (4H), 2.53 (3H), 2.71 - 3.14 (2H), 3.28 (3H), 3.36 - 3.43 (2H), 3.43 - 3.50 (2H), 3.55 - 3.83 (1H), 4.37 (3H), 7.05 - 7.12 (1H), 7.18 (2H), 7.22 - 7.30 (1H), 7.40 (5H), 8.14 (1H), 8.52 (1H).

10

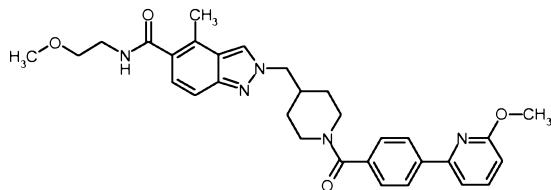
Example 377: N-(2-methoxyethyl)-4-methyl-2-({1-[4-(6-methylpyridin-3-yl)benzoyl]piperidin-4-yl} methyl)-2H-indazol-5-carboxamide



15 Analogously to Example 317, 45 mg of the title compound was obtained from 80 mg of 54 and 32 mg of (2-methylpyridin-5-yl)boronic acid under reflux.

¹H-NMR (300 MHz, DMSO-d₆): δ [ppm]= 1.26 (2H), 1.37 - 1.71 (2H), 2.18 - 2.39 (1H), 2.52 - 2.58 (3H), 2.73 - 3.16 (2H), 3.28 (3H), 3.36 - 3.43 (2H), 3.45 (2H), 3.54 - 3.79 (1H), 4.36 (3H), 7.18 (1H), 7.30 - 7.54 (4H), 7.76 (2H), 8.00 (1H), 8.15 (1H), 8.51 (1H), 8.78 (1H).

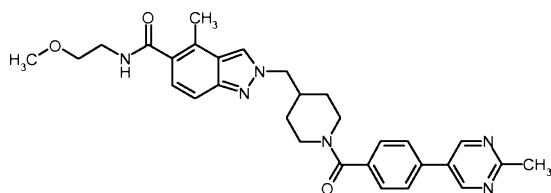
20 **Example 378:** N-(2-methoxyethyl)-2-({1-[4-(6-methoxypyridin-2-yl)benzoyl]piperidin-4-yl} methyl)-4-methyl-2H-indazol-5-carboxamide



Analogously to Example 317, 30 mg of the title compound was obtained from 100 mg of 54 and 45 mg of (6-methoxypyridin-2-yl)boronic acid under reflux.

25 ¹H-NMR (400 MHz, DMSO-d₆): δ [ppm]= 1.26 (2H), 1.35 - 1.68 (2H), 2.32 (1H), 2.52 (3H), 2.70 - 3.13 (2H), 3.28 (3H), 3.36 - 3.43 (2H), 3.43 - 3.50 (2H), 3.53 - 3.74 (1H), 3.96 (3H), 4.36 (3H), 6.81 (1H), 7.18 (1H), 7.37 - 7.67 (4H), 7.81 (1H), 8.15 (3H), 8.51 (1H).

Example 379: N-(2-methoxyethyl)-4-methyl-2-(1-[4-(2-methylpyrimidin-5-yl)benzoyl]piperidin-4-yl)methyl)-2H-indazol-5-carboxamide

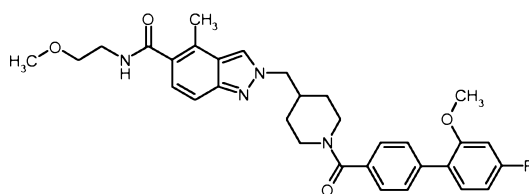


5 Analogously to Example 317, 36 mg of the title compound was obtained from 100 mg of 54 and 64 mg of (2-methylpyrimidin-5-yl)boronic acid pinacol ester under reflux.

¹H-NMR (300 MHz, DMSO-d₆): δ [ppm]= 1.27 (2H), 1.38 - 1.70 (2H), 2.21 - 2.40 (1H), 2.53 (3H), 2.67 (3H), 2.73 - 3.16 (2H), 3.28 (3H), 3.40 (2H), 3.43 - 3.50 (2H), 3.53 - 3.76 (1H), 4.36 (3H), 7.18 (1H), 7.42 (1H), 7.51 (2H), 7.84 (2H), 8.13 (1H), 8.51 (1H), 9.05 (2H).

10

Example 380: 2-(1-[(4'-fluoro-2'-methoxybiphenyl-4-yl)carbonyl]piperidin-4-yl)methyl)-N-(2-methoxyethyl)-4-methyl-2H-indazol-5-carboxamide

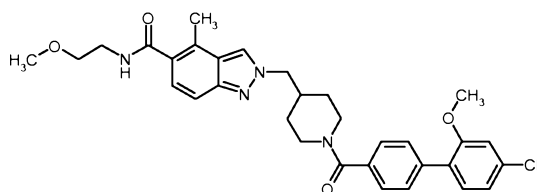


15 Analogously to Example 317, 47 mg of the title compound was obtained from 100 mg of 54 and 50 mg of (4-fluoro-2-methoxyphenyl)boronic acid under reflux.

¹H-NMR (400 MHz, DMSO-d₆): δ [ppm]= 1.19 - 1.34 (2H), 1.37 - 1.71 (2H), 2.22 - 2.40 (1H), 2.53 (3H), 2.70 - 3.15 (2H), 3.28 (3H), 3.36 - 3.43 (2H), 3.43 - 3.50 (2H), 3.56 - 3.75 (1H), 3.79 (3H), 4.36 (3H), 6.87 (1H), 6.99 - 7.10 (1H), 7.18 (1H), 7.30 - 7.46 (4H), 7.50 (2H), 8.13 (1H), 8.51 (1H).

20

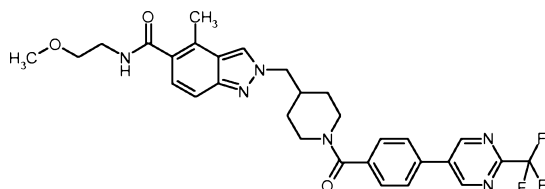
Example 381: 2-(1-[(4'-chloro-2'-methoxybiphenyl-4-yl)carbonyl]piperidin-4-yl)methyl)-N-(2-methoxyethyl)-4-methyl-2H-indazol-5-carboxamide



25 Analogously to Example 317, 87 mg of the title compound was obtained from 100 mg of 54 and 54 mg of (4-fluoro-2-methoxyphenyl)boronic acid under reflux.

¹H-NMR (300 MHz, DMSO-d₆): δ [ppm]= 1.26 (2H), 1.39 - 1.69 (2H), 2.19 - 2.39 (1H), 2.53 (3H), 2.75 - 3.14 (2H), 3.28 (3H), 3.40 (2H), 3.45 (2H), 3.57 - 3.74 (1H), 3.81 (3H), 4.36 (3H), 7.04 - 7.25 (3H), 7.28 - 7.62 (6H), 8.13 (1H), 8.51 (1H).

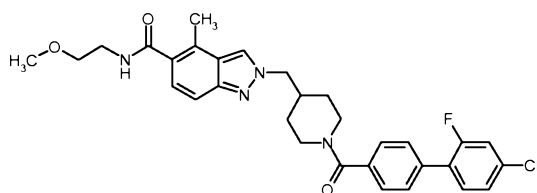
- 5 **Example 382:** N-(2-methoxyethyl)-4-methyl-2-[(1-{4-[2-(trifluoromethyl)pyrimidin-5-yl]-benzoyl}piperidin-4-yl)methyl]-2H-indazol-5-carboxamide



Analogously to Example 317, 14 mg of the title compound was obtained from 100 mg of 54 and 56 mg of [2-(trifluoromethyl)pyrimidin-5-yl]boronic acid under reflux.

- 10 ¹H-NMR (400 MHz, DMSO-d₆): δ [ppm]= 1.24 (2H), 1.38 - 1.73 (2H), 2.22 - 2.41 (1H), 2.53 (3H), 2.70 - 2.89 (1H), 2.94 - 3.18 (1H), 3.28 (3H), 3.36 - 3.43 (2H), 3.44 - 3.49 (2H), 3.51 - 3.70 (1H), 4.37 (3H), 7.18 (1H), 7.42 (1H), 7.57 (2H), 7.97 (2H), 8.13 (1H), 8.51 (1H), 9.43 (2H).

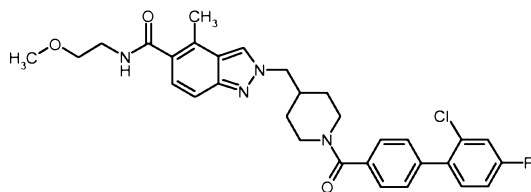
- 15 **Example 383:** 2-(1-[(4'-chloro-2'-fluorobiphenyl-4-yl)carbonyl]piperidin-4-yl)methyl)-N-(2-methoxyethyl)-4-methyl-2H-indazol-5-carboxamide



Analogously to Example 317, 51 mg of the title compound was obtained from 100 mg of 54 and 51 mg of (4-chloro-2-fluorophenyl)boronic acid under reflux.

- 20 ¹H-NMR (400 MHz, DMSO-d₆): δ [ppm]= 1.27 (2H), 1.38 - 1.68 (2H), 2.32 (1H), 2.53 (3H), 2.71 - 2.91 (1H), 2.93 - 3.16 (1H), 3.28 (3H), 3.40 (2H), 3.45 (2H), 3.53 - 3.78 (m, 1H), 4.37 (3H), 7.18 (1H), 7.33 - 7.52 (4H), 7.53 - 7.74 (4H), 8.13 (1H), 8.51 (1H).

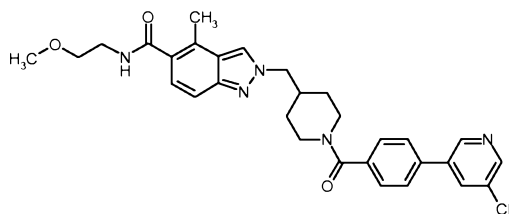
- 25 **Example 384:** 2-(1-[(2'-chloro-4'-fluorobiphenyl-4-yl)carbonyl]piperidin-4-yl)methyl)-N-(2-methoxyethyl)-4-methyl-2H-indazol-5-carboxamide



Analogously to Example 317, 26 mg of the title compound was obtained from 100 mg of 54 and 51 mg of (2-chloro-4-fluorophenyl)boronic acid under reflux.

¹H-NMR (400 MHz, DMSO-d₆): δ [ppm]= 1.28 (2H), 1.38 - 1.67 (2H), 2.23 - 2.39 (1H), 2.53 (3H), 2.71 - 2.91 (1H), 2.94 - 3.15 (1H), 3.28 (3H), 3.36 - 3.43 (2H), 3.43 - 3.50 (2H), 3.54 - 3.74 (1H), 4.37 (3H), 7.18 (1H), 7.33 (1H), 7.39 - 7.63 (7H), 8.13 (1H), 8.51 (1H).

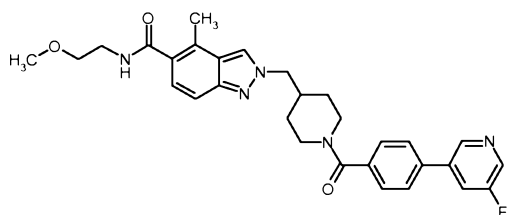
Example 385: 2-({1-[4-(5-chloropyridin-3-yl)benzoyl]piperidin-4-yl}methyl)-N-(2-methoxyethyl)-4-methyl-2H-indazol-5-carboxamide



Analogously to Example 317, 22 mg of the title compound was obtained from 100 mg of 54 and 46 mg of (5-chloropyridin-3-yl)boronic acid under reflux.

¹H-NMR (300 MHz, DMSO-d₆): δ [ppm]= 1.21 - 1.35 (2H), 1.36 - 1.69 (2H), 2.23 - 2.40 (1H), 2.53 (3H), 2.69 - 2.90 (1H), 2.92 - 3.16 (1H), 3.28 (3H), 3.40 (2H), 3.45 (2H), 3.53 - 3.73 (1H), 4.36 (3H), 7.18 (1H), 7.35 - 7.57 (3H), 7.86 (2H), 8.15 (1H), 8.30 (1H), 8.52 (1H), 8.65 (1H), 8.90 (1H).

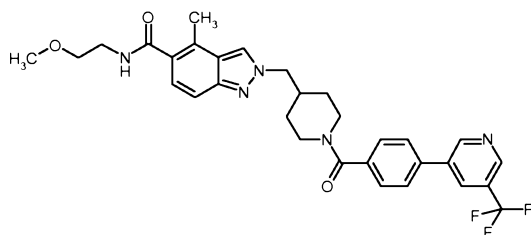
Example 386: 2-({1-[4-(5-fluoropyridin-3-yl)benzoyl]piperidin-4-yl}methyl)-N-(2-methoxyethyl)-4-methyl-2H-indazol-5-carboxamide



Analogously to Example 317, 57 mg of the title compound was obtained from 100 mg of 54 and 41 mg of (5-fluoropyridin-3-yl)boronic acid under reflux.

¹H-NMR (400 MHz, DMSO-d₆): δ [ppm]= 1.27 (2H), 1.37 - 1.70 (2H), 2.24 - 2.40 (1H), 2.52 - 2.55 (3H), 2.70 - 2.89 (1H), 2.93 - 3.15 (1H), 3.28 (3H), 3.36 - 3.43 (2H), 3.43 - 3.50 (2H), 3.53 - 3.73 (1H), 4.36 (3H), 7.18 (1H), 7.42 (1H), 7.50 (2H), 7.86 (2H), 8.07 - 8.18 (2H), 8.51 (1H), 8.61 (1H), 8.84 (1H).

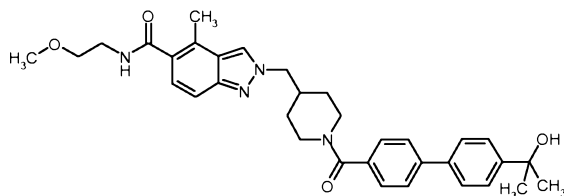
Example 387: N-(2-methoxyethyl)-4-methyl-2-[(1-{4-[5-(trifluoromethyl)pyridin-3-yl]benzoyl}piperidin-4-yl)methyl]-2H-indazol-5-carboxamide



Analogously to Example 317, 73 mg of the title compound was obtained from 100 mg of 54 and 56 mg of [5-(trifluoromethyl)pyridin-3-yl]boronic acid under reflux.

¹H-NMR (400 MHz, DMSO-d₆): δ [ppm]= 1.20 - 1.35 (2H), 1.36 - 1.67 (2H), 2.23 - 2.40 (1H), 2.53 (3H), 2.69 - 2.92 (1H), 2.93 - 3.17 (1H), 3.28 (3H), 3.35 - 3.43 (2H), 3.43 - 3.49 (2H), 3.53 - 3.75 (1H), 4.37 (3H), 7.18 (1H), 7.42 (1H), 7.52 (2H), 7.93 (2H), 8.07 - 8.20 (1H), 8.45 - 8.58 (2H), 9.00 (1H), 9.24 (1H).

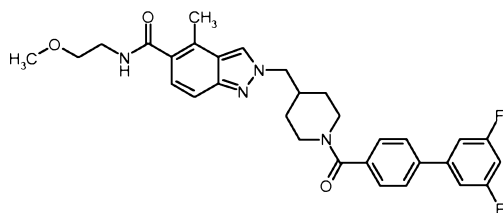
Example 388: 2-[(1-{[4'-(1-hydroxy-1-methylethyl)biphenyl-4-yl]carbonyl}piperidin-4-yl)-methyl]-N-(2-methoxyethyl)-4-methyl-2H-indazol-5-carboxamide



Analogously to Example 317, 46 mg of the title compound was obtained from 100 mg of 54 and 77 mg of (4-hydroxy-tert-butylphenyl)boronic acid pinacol ester under reflux.

¹H-NMR (300 MHz, DMSO-d₆): δ [ppm]= 1.26 (2H), 1.45 (8H), 2.22 - 2.42 (1H), 2.53 (3H), 2.71 - 2.90 (1H), 2.91 - 3.14 (1H), 3.28 (3H), 3.40 (2H), 3.43 - 3.50 (2H), 3.56 - 3.80 (1H), 4.36 (3H), 5.06 (1H), 7.18 (d, 1H), 7.37 - 7.50 (3H), 7.50 - 7.67 (4H), 7.71 (2H), 8.15 (1H), 8.52 (1H).

Example 389: 2-(1-{[3',5'-difluorobiphenyl-4-yl]carbonyl}piperidin-4-yl)-methyl)-N-(2-methoxyethyl)-4-methyl-2H-indazol-5-carboxamide

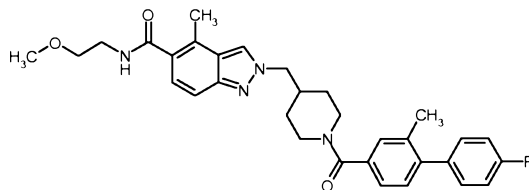


Analogously to Example 317, 22 mg of the title compound was obtained from 100 mg of 54 and 46 mg of (3,5-difluorophenyl)boronic acid under reflux.

¹H-NMR (400 MHz, DMSO-d₆): δ [ppm]= 1.18 - 1.35 (2H), 1.36 - 1.70 (2H), 2.19 - 2.39 (1H), 2.52 - 2.56 (3H), 2.71 - 2.92 (1H), 2.93 - 3.17 (1H), 3.28 (3H), 3.36 - 3.43 (2H), 3.43 - 3.49

(2H), 3.52 - 3.71 (1H), 4.36 (3H), 7.11 - 7.33 (2H), 7.37 - 7.54 (5H), 7.81 (2H), 8.13 (1H), 8.51 (1H).

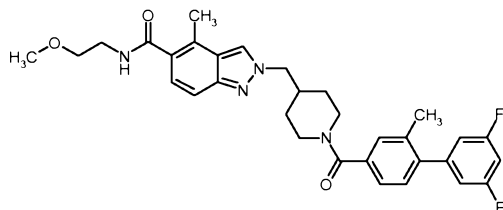
Example 390: 2-($\{1-[(4'\text{-fluoro-2-methylbiphenyl-4-yl})\text{carbonyl}]\text{piperidin-4-yl}\}$ methyl)-N-(2-methoxyethyl)-4-methyl-2H-indazol-5-carboxamide



Analogously to Example 317, 25 mg of the title compound was obtained from 60 mg of 332 and 19 mg of (4-fluorophenyl)boronic acid under reflux.

$^1\text{H-NMR}$ (400 MHz, DMSO- d_6): δ [ppm]= 1.25 (2H), 1.37 - 1.67 (2H), 2.24 (4H), 2.53 (3H), 2.69 - 2.87 (1H), 2.92 - 3.14 (1H), 3.28 (3H), 3.36 - 3.43 (2H), 3.43 - 3.50 (2H), 3.56 - 3.81 (1H), 4.36 (3H), 7.11 - 7.34 (6H), 7.36 - 7.46 (3H), 8.15 (1H), 8.52 (1H).

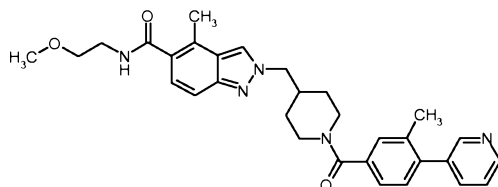
Example 391: 2-($\{1-[(3',5'\text{-difluoro-2-methylbiphenyl-4-yl})\text{carbonyl}]\text{piperidin-4-yl}\}$ methyl)-N-(2-methoxyethyl)-4-methyl-2H-indazol-5-carboxamide



Analogously to Example 317, 30 mg of the title compound was obtained from 60 mg of 332 and 27 mg of (3,5-difluorophenyl)boronic acid under reflux.

$^1\text{H-NMR}$ (400 MHz, DMSO- d_6): δ [ppm]= 1.23 (2H), 1.36 - 1.69 (2H), 2.27 (4H), 2.53 (3H), 2.69 - 2.90 (1H), 2.92 - 3.15 (1H), 3.28 (3H), 3.36 - 3.43 (2H), 3.45 (2H), 3.53 - 3.76 (1H), 4.36 (3H), 7.08 - 7.21 (3H), 7.22 - 7.34 (4H), 7.42 (1H), 8.15 (1H), 8.52 (1H).

Example 392: N-(2-methoxyethyl)-4-methyl-2-($\{1-[3\text{-methyl-4-(3-pyridyl)benzoyl}]\text{piperidin-4-yl}\}$ methyl)-2H-indazol-5-carboxamide

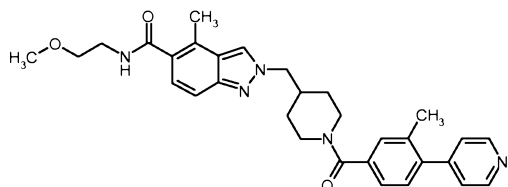


Analogously to Example 317, 19 mg of the title compound was obtained from 60 mg of 332 and 21 mg of pyridine-3-ylboronic acid under reflux.

¹H-NMR (400 MHz, DMSO-d₆): δ [ppm]= 1.20 - 1.33 (2H), 1.37 - 1.71 (2H), 2.26 (4H), 2.53 (3H), 2.70 - 2.88 (1H), 2.94 - 3.17 (1H), 3.28 (3H), 3.36 - 3.43 (2H), 3.43 - 3.49 (2H), 3.56 - 3.82 (1H), 4.36 (3H), 7.18 (1H), 7.23 - 7.37 (3H), 7.39 - 7.56 (2H), 7.83 (1H), 8.15 (1H), 8.52 (1H), 8.56 - 8.65 (2H).

5

Example 393: N-(2-methoxyethyl)-4-methyl-2-({1-[3-methyl-4-(4-pyridyl)benzoyl]piperidin-4-yl} methyl)-2H-indazol-5-carboxamide

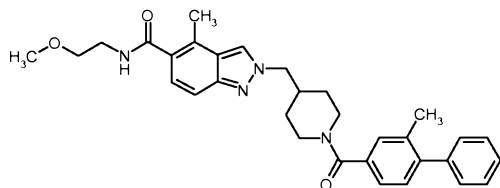


Analogously to Example 317, 19 mg of the title compound was obtained from 60 mg of 332 and 21 mg of pyridine-4-ylboronic acid under reflux.

¹H-NMR (400 MHz, DMSO-d₆): δ [ppm]= 1.18 - 1.33 (2H), 1.37 - 1.67 (2H), 2.27 (4H), 2.52 - 2.56 (3H), 2.70 - 2.86 (1H), 2.93 - 3.13 (1H), 3.28 (3H), 3.36 - 3.43 (2H), 3.43 - 3.49 (2H), 3.55 - 3.75 (1H), 4.36 (3H), 7.18 (1H), 7.23 - 7.36 (3H), 7.38 - 7.48 (3H), 8.15 (1H), 8.52 (1H), 8.60 - 8.69 (2H).

15

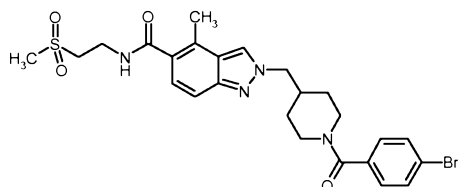
Example 394: N-(2-methoxyethyl)-4-methyl-2-({1-[(2-methylbiphenyl-4-yl)carbonyl]piperidin-4-yl} methyl)-2H-indazol-5-carboxamide



Analogously to Example 317, 57 mg of the title compound was obtained from 60 mg of 332 and 21 mg of phenylboronic acid under reflux.

¹H-NMR (400 MHz, DMSO-d₆): δ [ppm]= 1.19 - 1.34 (2H), 1.37 - 1.67 (2H), 2.25 (4H), 2.53 (3H), 2.68 - 2.88 (1H), 2.92 - 3.17 (1H), 3.28 (3H), 3.36 - 3.43 (2H), 3.45 (2H), 3.59 - 3.81 (1H), 4.36 (3H), 7.13 - 7.32 (4H), 7.33 - 7.50 (6H), 8.15 (1H), 8.52 (1H).

Example 395: 2-{{1-[4-bromobenzoyl]piperidin-4-yl}methyl}-N-(2-mesylethyl)-4-methyl-2H-indazol-5-carboxamide

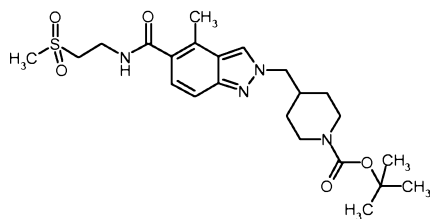


Analogously to Example 1b, Version B, 383 mg of the title compound was obtained from 1 g of 395b and 797 mg of 4-bromobenzoic acid in DMF.

¹H-NMR (400 MHz, DMSO-d₆): δ [ppm]= 1.21 - 1.32 (2H), 1.34 - 1.67 (2H), 2.21 - 2.38 (1H), 2.55 (3H), 2.68 - 2.87 (1H), 3.05 (4H), 3.39 (2H), 3.45 - 3.59 (1H), 3.66 (2H), 4.35 (3H), 7.23 (1H), 7.28 - 7.37 (2H), 7.43 (1H), 7.59 - 7.70 (2H), 8.34 (1H), 8.52 (1H).

The starting material was prepared as follows:

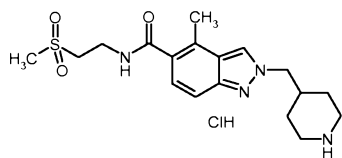
Example 395a: Tert-butyl 4-(5-[N-(2-mesyloethyl)carbamoyl]-4-methyl-2H-indazol-2-yl)-methyl)piperidin-1-carboxylate



Analogously to Example 266a, 1.26 g of the title compound was obtained from 2.506 g of 1c and 3.022 g of 2-mesyloethylamine hydrochloride.

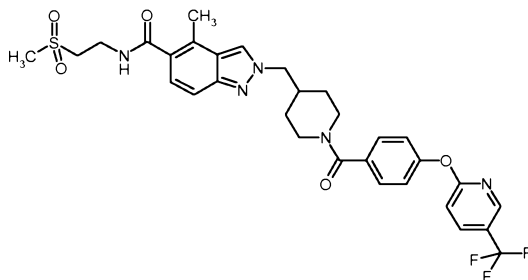
¹H-NMR (300 MHz, DMSO-d₆): δ [ppm]= 1.02 - 1.17 (2H), 1.34 - 1.54 (11H), 2.08 - 2.24 (1H), 2.55 (3H), 2.73 (2H), 3.06 (3H), 3.34 - 3.47 (2H), 3.57 - 3.76 (2H), 3.91 (2H), 4.32 (2H), 7.23 (1H), 7.43 (1H), 8.33 (1H), 8.52 (1H).

Example 395b: N-(2-mesyloethyl)-4-methyl-2-(4-piperidylmethyl)-2H-indazol-5-carboxamide hydrochloride



Analogously to Example 258b from 1.26 g of compound 395a, 1.29 g of the title compound was obtained, which was reacted without further purification.

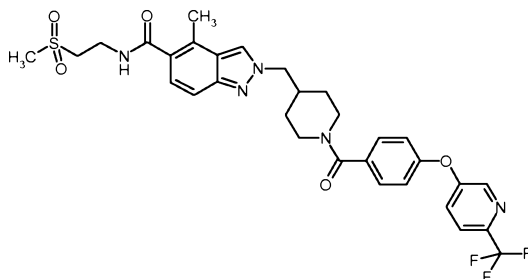
Example 396: N-(2-mesyloethyl)-4-methyl-2-{[1-(4-{[5-(trifluoromethyl)pyridin-2-yl]oxy}-benzoyl)piperidin-4-yl]methyl}-2H-indazol-5-carboxamide



Analogously to Example 1b, Version B, 30 mg of the title compound was obtained from 80 mg of 395b and 90 mg of 4-{[5-(trifluoromethyl)pyridin-2-yl]oxy}benzoic acid in DMF.

¹H-NMR (400 MHz, DMSO-d₆): δ [ppm]= 1.19 - 1.35 (2H), 1.36 - 1.72 (2H), 2.22 - 2.41 (1H),
 5 2.55 (3H), 3.06 (5H), 3.39 (2H), 3.49 - 3.89 (3H), 4.37 (3H), 7.20 - 7.32 (4H), 7.40 - 7.49 (3H),
 8.25 (1H), 8.34 (1H), 8.53 (1H), 8.58 (1H).

Example 397: N-(2-mesylethyl)-4-methyl-2-{[1-(4-{[6-(trifluoromethyl)pyridin-3-yl]oxy}-benzoyl)piperidin-4-yl]methyl}-2H-indazol-5-carboxamide

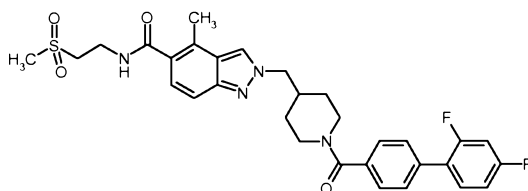


10

Analogously to Example 1b, Version B, 30 mg of the title compound was obtained from 80 mg of 395b and 90 mg of 303b in DMF.

¹H-NMR (400 MHz, DMSO-d₆): δ [ppm]= 1.24 (2H), 1.35 - 1.70 (2H), 2.22 - 2.40 (1H), 2.55
 (3H), 3.06 (5H), 3.39 (2H), 3.55 - 3.75 (3H), 4.36 (3H), 7.20 - 7.28 (3H), 7.40 - 7.49 (3H), 7.65
 15 (1H), 7.92 (1H), 8.34 (1H), 8.53 (1H), 8.60 (1H).

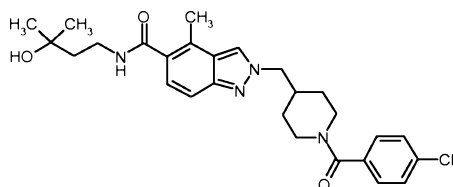
Example 398: 2-({1-[(2',4'-difluorobiphenyl-4-yl)carbonyl]piperidin-4-yl}methyl)-N-(2-mesylethyl)-4-methyl-2H-indazol-5-carboxamide



20 Analogously to Example 1b, Version B, 25 mg of the title compound was obtained from 80 mg of 395b and 74 mg of 2',4'-difluoro-biphenyl-4-carboxylic acid in DMF.

¹H-NMR (400 MHz, DMSO-d₆): δ [ppm]= 1.21 - 1.35 (2H), 1.37 - 1.70 (2H), 2.22 - 2.41 (1H), 2.55 (3H), 3.05 (5H), 3.38 (2H), 3.50 - 3.83 (3H), 4.37 (3H), 7.15 - 7.29 (2H), 7.31 - 7.52 (4H), 7.55 - 7.73 (3H), 8.34 (1H), 8.53 (1H).

- 5 **Example 399:** 2-([1-(4-chlorobenzoyl)piperidin-4-yl]methyl)-4-methyl-2H-indazol-5-carboxamide



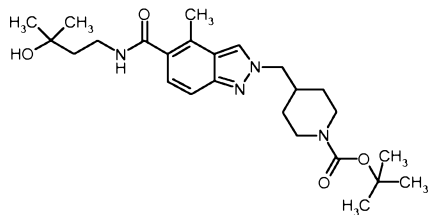
Analogously to Example 1b, Version B, 37 mg of the title compound was obtained from 160 mg of 399b and 105 mg of 4-chlorobenzoic acid in DMF.

- 10 ¹H-NMR (400 MHz, DMSO-d₆): δ [ppm]= 1.14 (6H), 1.17 - 1.32 (2H), 1.33 - 1.71 (4H), 2.23 - 2.37 (1H), 2.51 (3H), 2.68 - 2.87 (1H), 2.87 - 3.13 (1H), 3.31 (2H), 3.47 - 3.55 (1H), 4.34 (s, 4H), 7.17 (1H), 7.33 - 7.45 (3H), 7.50 (2H), 7.97 - 8.09 (1H), 8.50 (1H).

The starting material was prepared as follows:

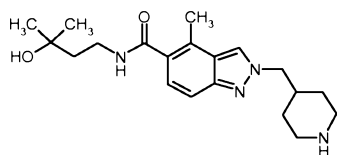
15

- Example 399a:** Tert-butyl 4-({5-[N-(3-hydroxy-3-methylbutyl)carbamoyl]-4-methyl-2H-indazol-2-yl}methyl)piperidin-1-carboxylate



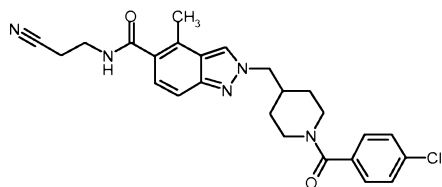
- 20 Analogously to Example 1b, Version B, 150 mg of 1d and 69 mg of 4-amino-2-methylbutan-2-ol in DMF were reacted at 60°C. After phase separation and extraction, the combined organic phases were additionally washed with 0.1 N hydrochloric acid and saturated sodium hydrogen carbonate solution. This yielded 132 mg of the title compound, which was used in the next step without further purification.

- 25 **Example 399b:** N-(3-hydroxy-3-methylbutyl)-4-methyl-2-(4-piperidylmethyl)-2H-indazol-5-carboxamide



Analogously to Example 258b, from 132 mg of 399a, 162 mg of the title compound was obtained, which was used in the next step without further purification.

Example 400: 2-{{1-(4-chlorobenzoyl)piperidin-4-yl}methyl}-N-(2-cyanoethyl)-4-methyl-2H-indazol-5-carboxamide

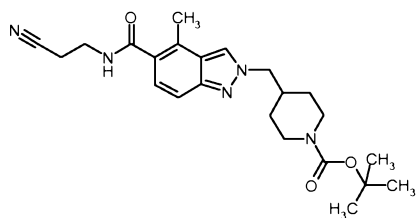


Analogously to Example 1b, Version B, 55 mg of the title compound was obtained from 177 mg of 400b and 128 mg of 4-chlorobenzoic acid in DMF.

¹H-NMR (400 MHz, DMSO-d₆): δ [ppm]= 1.23 (2H), 1.33 - 1.70 (2H), 2.20 - 2.38 (1H), 2.56 (3H), 2.78 (3H), 2.90 - 3.11 (1H), 3.47 (3H), 4.35 (3H), 7.22 (1H), 7.34 - 7.56 (5H), 8.44 - 8.57 (2H).

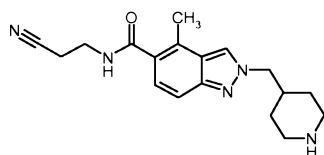
The starting material was prepared as follows:

Example 400a: Tert-butyl 4-({5-[N-(2-cyanoethyl)carbamoyl]-4-methyl-2H-indazol-2-yl}-methyl)-piperidin-1-carboxylate



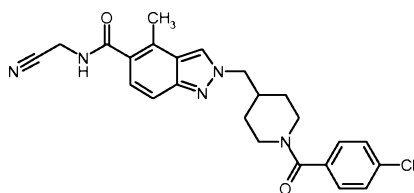
Analogously to Example 1b, Version B, 150 mg of 1d and 42 mg of 3-aminopropanitrile in DMF were reacted at 60°C. After phase separation and extraction, the combined organic phases were additionally washed with 0.1 N hydrochloric acid and saturated sodium hydrogen carbonate solution. This yielded 137 mg of the title compound, which was used in the next step without further purification.

Example 400b: N-(2-cyanoethyl)-4-methyl-2-(4-piperidylmethyl)-2H-indazol-5-carboxamide



Analogously to Example 258b, from 137 mg of 400a 177 mg of the title compound was obtained, which was used in the next step without further purification.

Example 401: 2- {[1-(4-chlorobenzoyl)piperidin-4-yl]methyl} -N-(cyanomethyl)-4-methyl-2H-indazol-5-carboxamide

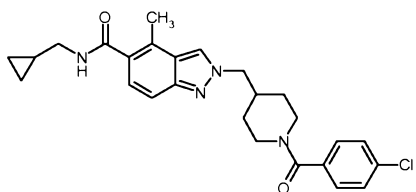


5 Analogously to Example 1b, Version B, 75 mg of the title compound was obtained from 90 mg of 238c and 29 mg of aminoacetonitrile in DMF.

¹H-NMR (400 MHz, DMSO-d₆): δ [ppm]= 1.21 - 1.33 (23H), 1.34 - 1.69 (2H), 2.15 - 2.41 (1H), 2.57 (3H), 2.75 - 2.86 (1H), 2.93 - 3.14 (1H), 3.39 - 3.69 (1H), 4.29 (2H), 4.33 - 4.55 (3H), 7.18 - 7.28 (1H), 7.39 (2H), 7.43 - 7.55 (3H), 8.57 (1H), 8.77 - 8.90 (1H).

10

Example 402: 2- {[1-(4-chlorobenzoyl)piperidin-4-yl]methyl} -N-(cyclopropylmethyl)-4-methyl-2H-indazol-5-carboxamide

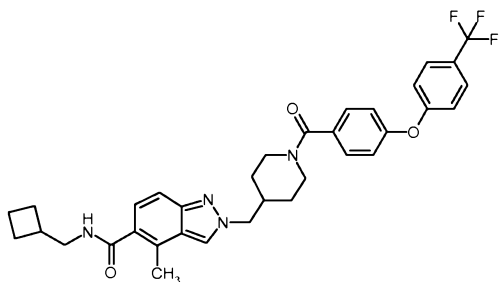


15 Analogously to Example 1b, Version B, 44 mg of the title compound was obtained from 90 mg of 238c) and 19 mg of cyclopropylmethylamine in DMF.

¹H-NMR (300 MHz, DMSO-d₆): δ [ppm]= 0.23 (2H), 0.33 - 0.53 (2H), 0.94 - 1.11 (1H), 1.20 - 1.33 (2H), 1.34 - 1.68 (2H), 2.21 - 2.41 (1H), 2.54 (3H), 2.69 - 2.85 (1H), 2.93 - 3.08 (1H), 3.13 (2H), 3.44 - 3.68 (1H), 4.35 (3H), 7.18 (1H), 7.33 - 7.46 (3H), 7.47 - 7.60 (2H), 8.07 - 8.30 (1H), 8.51 (1H).

20

Example 403: N-(cyclobutylmethyl)-4-methyl-2-[(1-{4-[4-(trifluoromethyl)phenoxy]benzoyl}-piperidin-4-yl)methyl]-2H-indazol-5-carboxamide



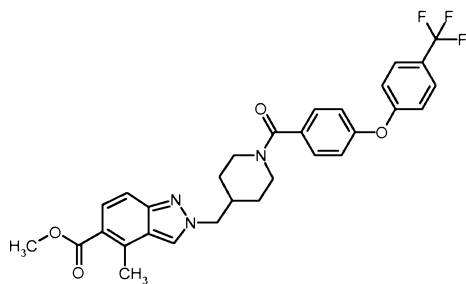
25 Analogously to Example 1b, Version B, 48 mg of the title compound was obtained from 137 mg of 403b and 31 mg of (cyclobutylamino)methylamine hydrochloride.

¹H-NMR (400 MHz, DMSO-d₆): δ [ppm]= 1.17 - 1.32 (2H), 1.35 - 1.64 (2H), 1.67 - 1.90 (4H), 1.93 - 2.08 (2H), 2.22 - 2.38 (1H), 2.51 - 2.52 (3H), 2.69 - 2.88 (1H), 2.90 - 3.13 (1H), 3.20 - 3.30 (2H), 3.51 - 3.83 (1H), 4.36 (3H), 7.09 - 7.27 (5H), 7.35 - 7.52 (3H), 7.76 (2H), 8.13 (1H), 8.51 (1H).

5

The starting material was prepared as follows:

Example 403a: Methyl 4-methyl-2-[(1-{4-[4-(trifluoromethyl)phenoxy]benzoyl}piperidin-4-yl)methyl]-2H-indazol-5-carboxylate



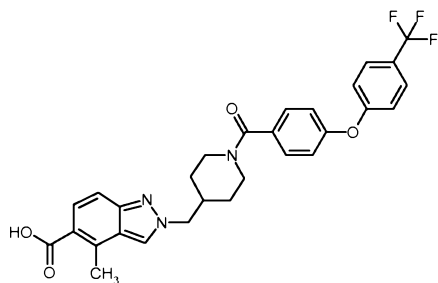
10

Analogously to Example 1b, Version B, 2.73 g of the title compound was obtained from 3.76 g of 238a and 3.28 g of 4-[4-(trifluoromethyl)phenoxy]benzoic acid.

¹H-NMR (400 MHz, DMSO-d₆): δ [ppm]= 1.19 - 1.35 (2H), 1.38 - 1.74 (2H), 2.17 - 2.41 (1H), 2.76 (3H), 2.78 - 3.14 (2H), 3.44 - 3.76 (1H), 3.82 (3H), 4.37 (3H), 7.06 - 7.28 (4H), 7.38 - 7.50 (3H), 7.67 (1H), 7.76 (2H), 8.71 (1H).

15

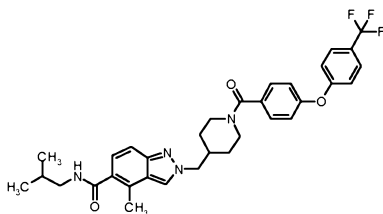
Example 403b: 4-methyl-2-[(1-{4-[4-(trifluoromethyl)phenoxy]benzoyl}piperidin-4-yl)methyl]-2H-indazol-5-carboxylic acid



20

Analogously to Example 1d, from 1.05 g of 403a, 970 mg of the title compound was obtained, which was used in the next step without further purification.

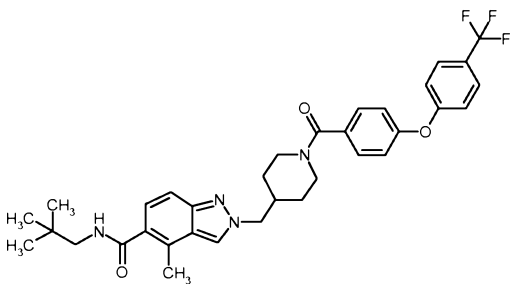
Example 404: N-isobutyl-4-methyl-2-[(1-{4-[4-(trifluoromethyl)phenoxy]benzoyl}piperidin-4-yl)methyl]-2H-indazol-5-carboxamide



Analogously to Example 1b, Version B, 35 mg of the title compound was obtained from 100 mg of 403b and 14 mg of isobutylamine.

¹H-NMR (300 MHz, DMSO-d₆): δ [ppm]= 0.91 (6H), 1.24 (2H), 1.34 - 1.69 (2H), 1.82 (1H),
 5 2.19 - 2.42 (1H), 2.52 (3H), 2.71 - 2.90 (1H), 3.06 (3H), 3.51 - 3.85 (1H), 4.36 (3H), 7.05 - 7.27 (5H), 7.37 - 7.52 (3H), 7.76 (2H), 8.16 (1H), 8.51 (1H).

Example 405: 4-methyl-N-neopentyl-2-[(1-{4-[4-(trifluoromethyl)phenoxy]benzoyl}piperidin-4-yl)methyl]-2H-indazol-5-carboxamide

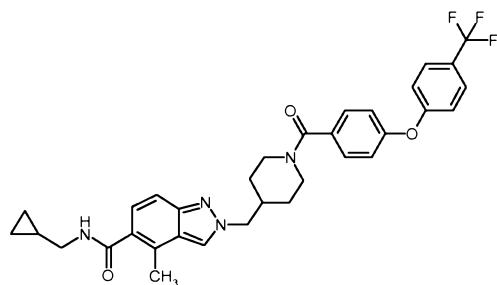


10

Analogously to Example 1b, Version B, 36 mg of the title compound was obtained from 100 mg of 403b and 16 mg of neopentylamine.

¹H-NMR (400 MHz, DMSO-d₆): δ [ppm]= 0.92 (9H), 1.17 - 1.32 (2H), 1.34 - 1.69 (2H), 2.21 -
 2.38 (1H), 2.52 - 2.57 (3H), 2.70 - 2.88 (1H), 3.08 (3H), 3.53 - 3.85 (1H), 4.36 (3H), 7.04 - 7.28
 15 (5H), 7.35 - 7.52 (3H), 7.76 (2H), 8.12 (1H), 8.51 (1H).

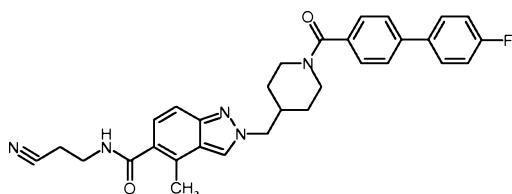
Example 406: N-(cyclopropylmethyl)-4-methyl-2-[(1-{4-[4-(trifluoromethyl)phenoxy]benzoyl}piperidin-4-yl)methyl]-2H-indazol-5-carboxamide



20 Analogously to Example 1b, Version B, 33 mg of the title compound was obtained from 100 mg of 403b and 26 mg of cyclopropylmethylamine.

¹H-NMR (300 MHz, DMSO-d₆): δ [ppm]= 0.23 (2H), 0.35 - 0.54 (2H), 0.93 - 1.11 (1H), 1.23 (2H), 1.36 - 1.67 (2H), 2.18 - 2.41 (1H), 2.54 (3H), 2.66 - 3.22 (4H), 3.47 - 3.85 (1H), 4.36 (3H), 7.03 - 7.29 (5H), 7.35 - 7.53 (3H), 7.76 (2H), 8.22 (1H), 8.52 (1H).

- 5 **Example 407:** N-(2-cyanoethyl)-2-(1-[(4'-fluorobiphenyl-4-yl)carbonyl]piperidin-4-yl)-4-methyl-2H-indazol-5-carboxamide



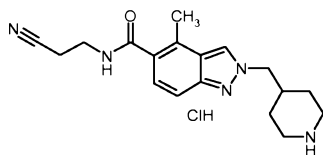
Analogously to Example 1b, Version B, 37 mg of the title compound was obtained from 140 mg of 407a and 84 mg of 4'-fluorobiphenyl-4-carboxylic acid.

- 10 ¹H-NMR (300 MHz, DMSO-d₆): δ [ppm]= 1.18 - 1.37 (2H), 1.37 - 1.68 (2H), 2.22 - 2.41 (1H), 2.56 (3H), 2.78 (4H), 3.39 - 3.53 (2H), 3.56 - 3.82 (1H), 4.37 (3H), 7.14 - 7.37 (3H), 7.39 - 7.53 (3H), 7.63 - 7.83 (4H), 8.36 - 8.60 (2H).

The starting material was prepared as follows:

15

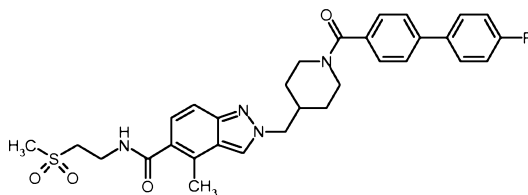
- Example 407a:** N-(2-cyanoethyl)-4-methyl-2-(4-piperidylmethyl)-2H-indazol-5-carboxamide hydrochloride



- Analogously to Example 1a, from 165 mg of 400a, 140 mg of the title compound was obtained, which was used in the next step without further purification.

20

- Example 408:** 2-(1-[(4'-fluorobiphenyl-4-yl)carbonyl]piperidin-4-yl)methyl)-N-(2-mesylyl)-4-methyl-2H-indazol-5-carboxamide

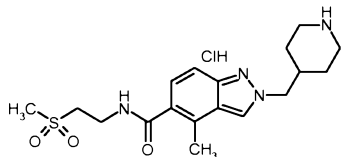


- 25 Analogously to Example 1b), Version B, 126 mg of the title compound was obtained from 300 mg of 408a) and 156 mg of 4'-fluorobiphenyl-4-carboxylic acid.

LC-MS: R_t = 1.20 min, MS (ES⁺): m/z = 577 (M+H)⁺.

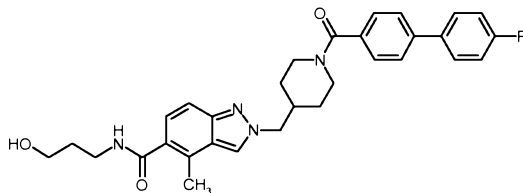
The starting material was prepared as follows:

Example 408a: N-(2-mesyloethyl)-4-methyl-2-(4-piperidylmethyl)-2H-indazol-5-carboxamide
5 hydrochloride



Analogously to Example 1a, from 346 mg of 395a, 300 mg of the title compound was obtained, which was used in the next step without further purification.

Example 409: 2-(1-[(4'-fluorobiphenyl-4-yl)carbonyl]piperidin-4-yl)methyl-N-(3-hydroxy-
10 propyl)-4-methyl-2H-indazol-5-carboxamide



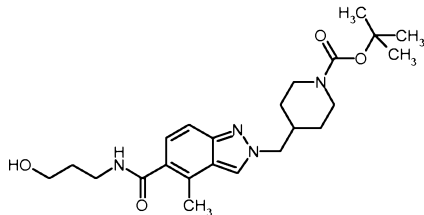
Analogously to Example 1b, Version B, 20 mg of the title compound was obtained from 124 mg of 409b) and 73 mg of 4'-fluorobiphenyl-4-carboxylic acid.

¹H-NMR (300 MHz, DMSO-d₆): δ [ppm]= 1.26 (2H), 1.38 - 1.59 (2H), 1.67 (2H), 2.23 - 2.42
15 (1H), 2.52 - 2.57 (3H), 2.69 - 3.17 (2H), 3.19 - 3.94 (6H), 4.36 (3H), 7.18 (1H), 7.31 (2H), 7.38 - 7.51 (3H), 7.63 - 7.86 (4H), 8.08 (1H), 8.51 (1H).

The starting material was prepared as follows:

20

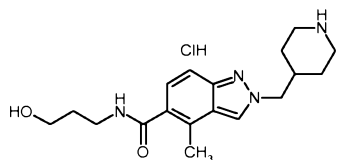
Example 409a: Tert-butyl 4-({5-[N-(3-hydroxypropyl)carbamoyl]-4-methyl-2H-indazol-2-yl}-
methyl)piperidin-1-carboxylate



Analogously to Example 1b, Version B, 151 mg of the title compound was obtained from
25 150 mg of 1d and 30 mg of 3-amino-propan-1-ol.

¹H-NMR (400 MHz, DMSO-d₆): δ [ppm]= 1.01 - 1.30 (3H), 1.32 - 1.49 (10H), 1.67 (2H), 2.08 - 2.27 (1H), 2.52 (3H), 2.57 - 2.80 (2H), 3.29 (2H), 3.41 - 3.54 (2H), 3.81 - 4.00 (2H), 4.32 (2H), 4.48 (1H), 7.18 (1H), 7.42 (1H), 8.10 (1H), 8.50 (1H).

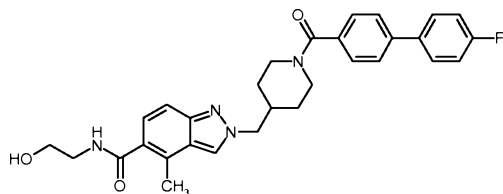
- 5 **Example 409b:** N-(3-hydroxypropyl)-4-methyl-2-(4-piperidylmethyl)-2H-indazol-5-carboxamide



Analogously to Example 1a, from 246 mg of 409a, 124 mg of the title compound was obtained, which was used in the next step without further purification.

10

- Example 410:** 2-(({1-[(4'-fluorobiphenyl-4-yl)carbonyl]piperidin-4-yl} methyl)-N-(2-hydroxyethyl)-4-methyl-2H-indazol-5-carboxamide

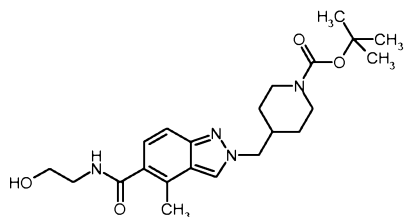


- 15 Analogously to Example 1b, Version B, 36 mg of the title compound was obtained from 117 mg of 410b and 72 mg of 4'-fluorobiphenyl-4-carboxylic acid.

¹H-NMR (300 MHz, DMSO-d₆): δ [ppm]= 1.26 (2H), 1.39 - 1.74 (2H), 2.21 - 2.40 (1H), 2.53 (3H), 2.75 - 3.16 (2H), 3.20 - 3.37 (2H), 3.43 - 3.74 (4H), 4.36 (3H), 7.21 (1H), 7.31 (2H), 7.38 - 7.52 (3H), 7.65 - 7.81 (4H), 8.03 (1H), 8.51 (1H).

- 20 The starting material was prepared as follows:

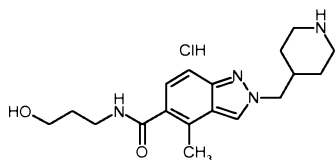
- Example 410a:** Tert-butyl 4-({5-[N-(2-hydroxyethyl)carbamoyl]-4-methyl-2H-indazol-2-yl} -methyl)piperidin-1-carboxylate



- 25 Analogously to Example 1b, Version B, 143 mg of the title compound was obtained from 150 mg of 1d) and 25 mg of 2-aminoethan-1-ol.

¹H-NMR (400 MHz, DMSO-d₆): δ [ppm]= 1.01 - 1.30 (3H), 1.32 - 1.51 (10H), 2.07 - 2.26 (1H), 2.52 - 2.55 (3H), 2.58 - 2.82 (2H), 3.30 (2H), 3.45 - 3.58 (2H), 3.83 - 3.98 (2H), 4.32 (2H), 4.69 (1H), 7.21 (1H), 7.41 (1H), 8.05 (1H), 8.50 (1H).

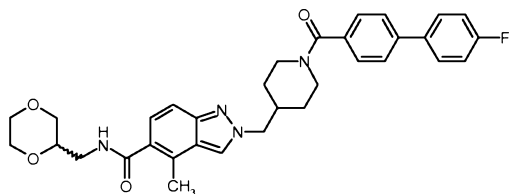
- 5 **Example 410b:** N-(3-hydroxypropyl)-4-methyl-2-(4-piperidylmethyl)-2H-indazol-5-carboxamide hydrochloride



Analogously to Example 1a) from 138 mg of 410a, 117 mg of the title compound was obtained, which was used in the next step without further purification.

10

- Example 411:** (+/-)-N-(1,4-dioxan-2-ylmethyl)-2-(1-[(4'-fluorobiphenyl-4-yl)carbonyl]piperidin-4-yl)methyl)-4-methyl-2H-indazol-5-carboxamide



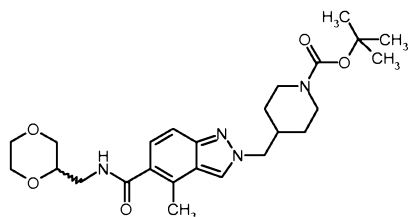
- 15 Analogously to Example 1b, Version B, 62 mg of the title compound was obtained from 226 mg of 411b) and 119 mg of 4'-fluorobiphenyl-4-carboxylic acid.

¹H-NMR (400 MHz, DMSO-d₆): δ [ppm]= 1.19 - 1.34 (2H), 1.37 - 1.73 (2H), 2.23 - 2.42 (1H), 2.53 (3H), 2.69 - 2.90 (1H), 2.90 - 3.14 (1H), 3.17 - 3.30 (3H), 3.47 (1H), 3.58 (1H), 3.59 - 3.70 (3H), 3.71 - 3.82 (2H), 4.37 (3H), 7.19 (1H), 7.31 (2H), 7.38 - 7.53 (3H), 7.66 - 7.81 (4H), 8.18 (1H), 8.52 (1H).

20

The starting material was prepared as follows:

- Example 411a:** (+/-)-tert-butyl 4-({5-[N-(1,4-dioxan-2-ylmethyl)carbamoyl]-4-methyl-2H-indazol-2-yl}methyl)piperidin-1-carboxylate

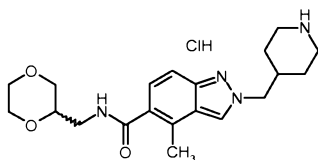


25

Analogously to Example 1b, Version B, 267 mg of the title compound was obtained from 250 mg of 1d and 78 mg of (+/-)-1,4-dioxan-2-ylmethylamine.

¹H-NMR (400 MHz, DMSO-d₆): δ [ppm]= 0.99 - 1.18 (2H), 1.38 (11H), 2.09 - 2.24 (1H), 2.53 (3H), 3.10 - 3.29 (4H), 3.41 - 3.52 (1H), 3.53 - 3.70 (4H), 3.70 - 3.81 (2H), 3.84 - 3.98 (2H), 4.32 (2H), 7.18 (1H), 7.41 (1H), 8.12 - 8.24 (1H), 8.51 (1H).

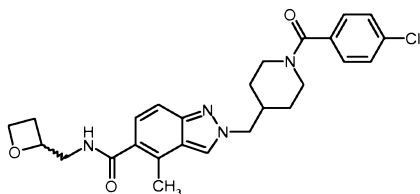
- 5 **Example 411b:** (+/-)-N-(1,4-dioxan-2-ylmethyl)-4-methyl-2-(4-piperidylmethyl)-2H-indazol-5-carboxamide hydrochloride



Analogously to Example 1a, from 261 mg of 411a, 226 mg of the title compound was obtained, which was used in the next step without further purification.

10

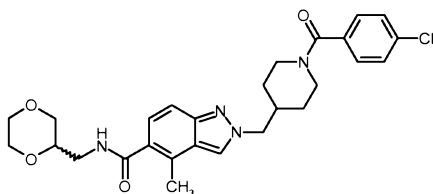
- Example 412:** (+/-)-2-{[1-(4-chlorobenzoyl)piperidin-4-yl]methyl}-4-methyl-N-(oxetan-2-ylmethyl)-2H-indazol-5-carboxamide



- 15 Analogously to Example 1b, Version B, 55 mg of the title compound was obtained from 350 mg of 238c) and 83 mg of (+/-)-oxetan-2-ylmethylamine.

¹H-NMR (300 MHz, DMSO-d₆): δ [ppm]= 1.16 - 1.31 (2H), 1.33 - 1.69 (2H), 2.19 - 2.38 (2H), 2.53 (3H), 2.58 - 2.66 (1H), 2.66 - 2.86 (1H), 2.90 - 3.14 (1H), 3.38 - 3.64 (3H), 4.35 (5H), 4.71 - 4.96 (1H), 7.19 (1H), 7.33 - 7.45 (3H), 7.47 - 7.55 (2H), 8.21 - 8.37 (1H), 8.51 (1H).

- 20 **Example 413:** (+/-)-2-{[1-(4-chlorobenzoyl)piperidin-4-yl]methyl}-N-(1,4-dioxan-2-ylmethyl)-4-methyl-2H-indazol-5-carboxamide

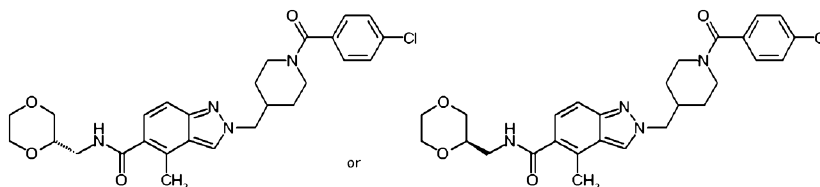


Analogously to Example 1b, Version B, 185 mg of the title compound was obtained from 376 mg of 238c and 111 mg of (+/-)-1,4-dioxan-2-ylmethylamine hydrochloride.

- 25 ¹H-NMR (300 MHz, DMSO-d₆): δ [ppm]= 1.19 - 1.32 (2H), 1.33 - 1.66 (2H), 2.20 - 2.40 (1H), 2.53 (3H), 2.71 - 2.86 (1H), 2.90 - 3.11 (1H), 3.16 - 3.32 (3H), 3.40 - 3.59 (3H), 3.60 - 3.70

(2H), 3.71 - 3.83 (2H), 4.35 (3H), 7.18 (1H), 7.31 - 7.46 (3H), 7.46 - 7.60 (2H), 8.21 (1H), 8.51 (1H).

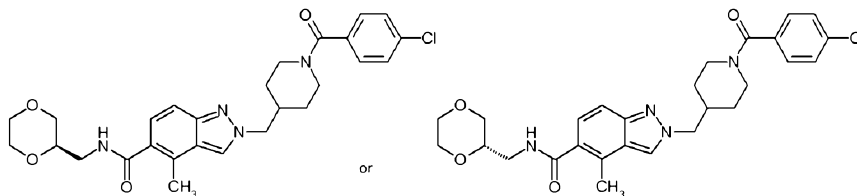
Example 414: (R or S)-2- {[1-(4-chlorobenzoyl)piperidin-4-yl]methyl}-N-(1,4-dioxan-2-ylmethyl)-4-methyl-2H-indazol-5-carboxamide



From 185 mg of the racemate prepared in Example 413, 51 mg of the title compound together with 58 mg of the slower-eluting enantiomer (Example 415) were obtained by racemate separation by means of preparative chiral HPLC (Method D).

Analytical chiral HPLC: 12.62 min.

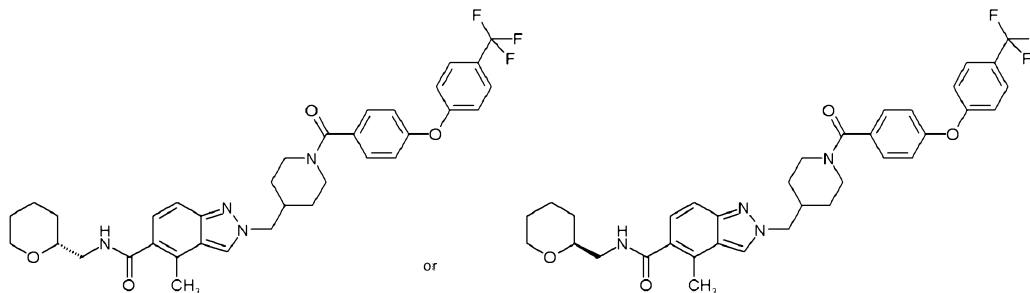
Example 415: (S or R)-2- {[1-(4-chlorobenzoyl)piperidin-4-yl]methyl}-N-(1,4-dioxan-2-ylmethyl)-4-methyl-2H-indazol-5-carboxamide



From 185 mg of the racemate prepared in Example 413, 58 mg of the title compound together with 51 mg of the faster-eluting enantiomer (Example 414) were obtained by racemate separation by means of preparative chiral HPLC (Method D).

Analytical chiral HPLC: 13.68 min.

Example 416: (R or S)-4-methyl-N-(3,4,5,6-tetrahydro-2H-pyran-2-ylmethyl)-2-[(1-{4-[4-(trifluoromethyl)phenoxy]benzoyl}piperidin-4-yl)methyl]-2H-indazol-5-carboxamide

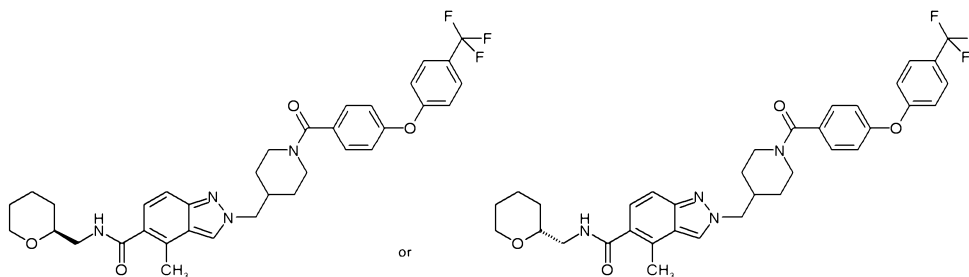


From 231 mg of the racemate prepared in Example 248, 24 mg of the title compound together with 24 mg of the slower-eluting enantiomer (Example 417) were obtained by racemate separation by means of preparative chiral HPLC (Method E).

Analytical chiral HPLC: 7.08 min.

5

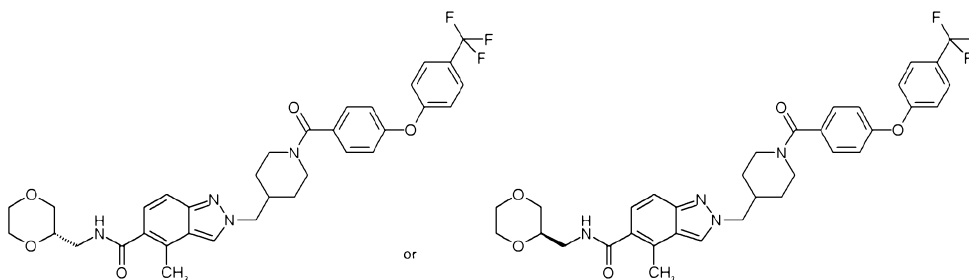
Example 417: (S or R)-4-methyl-N-(3,4,5,6-tetrahydro-2H-pyran-2-ylmethyl)-2-[(1-{4-[4-(trifluoromethyl)phenoxy]benzoyl}piperidin-4-yl)methyl]-2H-indazol-5-carboxamide



From 231 mg of the racemate prepared in Example 248, 24 mg of the title compound together with 24 mg of the faster-eluting enantiomer (Example 416) were obtained by racemate separation by means of preparative chiral HPLC (Method E).

Analytical chiral HPLC: 8.98 min.

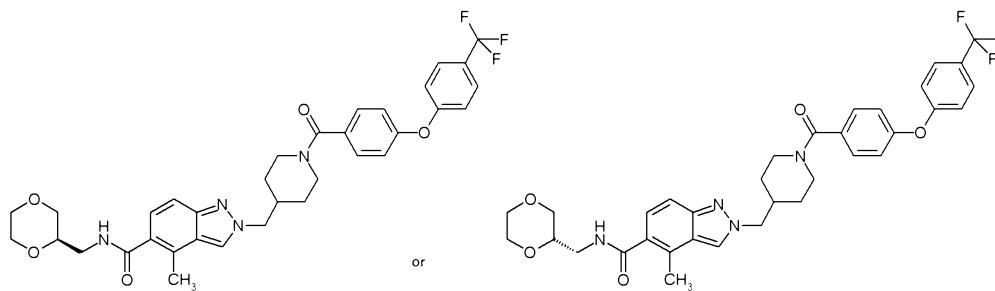
Example 418: (R or S)-N-(1,4-dioxan-2-ylmethyl)-4-methyl-2-[(1-{4-[4-(trifluoromethyl)phenoxy]benzoyl}piperidin-4-yl)methyl]-2H-indazol-5-carboxamide



From 280 mg of the racemate prepared in Example 249, 65 mg of the title compound together with 75 mg of the slower-eluting enantiomer (Example 419) were obtained by racemate separation by means of preparative chiral HPLC (Method D (injection volume: 0.1 ml; detection: UV 210 nM)).

Analytical chiral HPLC: 13.66 min.

Example 419: (R or S)-N-(1,4-dioxan-2-ylmethyl)-4-methyl-2-[(1-{4-[4-(trifluoromethyl)phenoxy]benzoyl}piperidin-4-yl)methyl]-2H-indazol-5-carboxamide



From 280 mg of the racemate prepared in Example 249, 75 mg of the title compound together with 65 mg of the faster-eluting enantiomer (Example 418) were obtained by racemate separation by means of preparative chiral HPLC (Method D (injection volume: 0.1 ml;

5 Detection: UV 210 nm)).

Analytical chiral HPLC: 14.90 min.

Biological Examples:**1. Detection of antagonism to the human prostaglandin E₂ (subtype EP₂) receptor signal****1.1 Detection principle**

5 The binding of PGE₂ to the EP₂ subtype of the human PGE₂ receptor induces the activation of membrane-located adenylate cyclases and leads to the formation of cAMP. In the presence of the phosphodiesterase inhibitor IBMX, the cAMP accumulated owing to this stimulation and released by cell lysis is used in a competitive detection method. In this test, the cAMP present in the lysate competes with a fluorescence-labelled cAMP (cAMP-d2) for binding to an Eu
10 cryptate-labelled anti-cAMP antibody.

In the absence of cellular cAMP, a maximal signal is produced, which is attributable to the binding of this cAMP-d2 molecule to the antibody. After excitation of the cAMP-d2 molecule at 337 nm, there is a fluorescence resonance energy transfer (FRET) to the Eu cryptate molecules of the anti-cAMP antibody (labelled therewith), followed by a long-lasting emission signal at
15 665 nm (and at 620 nm). Both signals are measured in a suitable measurement instrument with a time delay, i.e. after decay of the background fluorescence. Any increase in the low FRET signal caused by prostaglandin E₂ administration (measured as well ratio change = $\frac{\text{emission}_{665\text{nm}}}{\text{emission}_{620\text{nm}}} * 10000$) indicates the action of antagonists.

20 1.2. Detection method**1.2.1. Test for antagonism (data per well of a 384-well plate):**

To a test plate with the substance solutions already added (0.05 µl; 100% DMSO, concentration range from 0.8 nM – 16.5 µM) were added 4 µl of a cAMP-d2/cell suspension (625000 cells/ml). After a 20-minute preincubation at room temperature (RT), 2 µl of a 3xPGE₂ solution
25 (1.5 nM, in PBS-IBMX) were added and incubated in the presence of the agonist for a further 60 mins at RT (volume: ~ 6 µl). Next the reaction was stopped by addition of 2 µl of lysis buffer and incubated for a further 20 mins at RT before the actual measurement (volume: ~ 8 µl).

2. Detection of antagonism to the human prostaglandin E₂ (subtype EP₄) receptor signal

2.1 Detection principle

- 5 The binding of PGE₂ to the EP₄ subtype of the human PGE₂ receptor induces the activation of membrane-located adenylate cyclases and leads to the formation of cAMP. In the presence of the phosphodiesterase inhibitor IBMX, the cAMP accumulated owing to this stimulation and released by cell lysis is used in a competitive detection method. In this test, the cAMP present in the lysate competes with a fluorescence-labelled cAMP (cAMP-d2) for binding to an Eu cryptate-labelled anti-cAMP antibody.
- 10 In the absence of cellular cAMP a maximal signal is produced, which is attributable to the binding of this cAMP-d2 molecule to the antibody. After excitation of the cAMP-d2 molecule at 337 nm, there is a fluorescence resonance energy transfer (FRET) to the Eu cryptate molecules of the anti-cAMP antibody (labelled therewith), followed by a long-lasting emission signal at 665 nm (and at 620 nm). Both signals are measured in a suitable measurement instrument with a
- 15 time delay, i.e. after decay of the background fluorescence. Any increase in the low FRET signal caused by prostaglandin E₂ administration (measured as well ratio change = $\text{emission}_{665\text{nm}}/\text{emission}_{620\text{nm}} * 10000$) indicates the action of antagonists.

2.2. Detection method

- 20 2.2.1. Test for antagonism (data per well of a 384-well plate):

- To a test plate with the substance solutions already added (0.05 µl; 100% DMSO, concentration range from 0.8 nM - 16.5 µM) were added 4 µl of a cAMP-d2/cell suspension (312500 cells/ml). After a 20-minute preincubation at room temperature (RT), 2 µl of a 3xPGE₂ solution (0.3 nM, in PBS-IBMX) were added and incubated in the presence of the agonist for a further 60 mins at
- 25 RT (volume: ~ 6 µl). Next the reaction was stopped by addition of 2 µl of lysis buffer and incubated for a further 20 mins at RT before the actual measurement (volume: ~ 8 µl).

3. Detection of antagonism to the human prostaglandin D receptor signal

3.1 Detection principle

The binding of prostaglandin D₂ to the human PGD receptor induces the activation of membrane-located adenylate cyclases and leads to the formation of cAMP. In the presence of the phosphodiesterase inhibitor IBMX, the cAMP accumulated owing to this stimulation and released by cell lysis is used in a competitive detection method. In this test, the cAMP present in the lysate competes with a fluorescence-labelled cAMP (cAMP-d2) for binding to an Eu cryptate-labelled anti-cAMP antibody.

In the absence of cellular cAMP, a maximal signal is produced, which is attributable to the binding of this cAMP-d2 molecule to the antibody. After excitation of the cAMP-d2 molecule at 337 nm, there is a fluorescence resonance energy transfer (FRET) to the Eu cryptate molecules of the anti-cAMP antibody (labelled therewith), followed by a long-lasting emission signal at 665 nm (and at 620 nm). Both signals are measured in a suitable measurement instrument with a time delay, i.e. after decay of the background fluorescence. Any increase in the low FRET signal caused by prostaglandin E₂ administration (measured as well ratio change = $\frac{\text{emission}_{665\text{nm}}}{\text{emission}_{620\text{nm}}} * 10000$) indicates the action of antagonists.

3.2. Detection method

3.2.1. Test for antagonism (data per well of a 384-well plate):

To a test plate with the substance solutions already added (0.05 µl; 100% DMSO, concentration range from 0.8 nM – 16.5 µM) were added 4 µl of a cAMP-d2/cell suspension (625000 cells/ml). After a 20-minute preincubation at room temperature (RT), 2 µl of a 3xPGD2 solution (6 nM, in PBS-IBMX) were added and incubated in the presence of the agonist for a further 30 mins at RT (volume: ~ 6 µl). Next the reaction was stopped by addition of 2 µl of lysis buffer and incubated for a further 20 mins at RT before the actual measurement (volume: ~ 8 µl).

4. The EP₂ subtype of the PGE₂ receptor and the pre-ovulatory cumulus expansion

4.1. Background:

In the pre-ovulatory antral follicle, the oocyte is surrounded by cumulus cells, which form a dense cell crown around the oocyte. After the LH peak (luteinizing hormone), a series of processes is activated, which results in a marked morphological change in this cell crown of cumulus cells. During this, the cumulus cells form an extracellular matrix, which leads to the so-called cumulus expansion (Vanderhyden *et al.* Dev Biol. 1990 Aug;140(2): 307-317) This cumulus expansion is an important component of the ovulatory process and the subsequent possibility of fertilization.

During the cumulus expansion, prostaglandins and here prostaglandin E₂, synthesis whereof is induced by the LH peak, are of decisive importance. Prostanoid EP₂ knockout mice (Hizaki *et al.*, 1999, Proc Natl Acad Sci U S A., Aug 31;96(18):10501-6.) show a markedly decreased cumulus expansion and severe subfertility, which demonstrates the importance of the prostanoid EP₂ receptor for this process.

4.2. Cumulus expansions test *in vitro*

In immature female mice (strain: B6D2F1 from Charles River), at an age of 14 - 18 days, the folliculogenesis was induced by a single administration (intraperitoneal) of 10 IU of PMSG (pregnant mare serum gonadotropin; Sigma G-4877, Lot 68H0909). 47-50 hours after the injection, the ovaries were removed and the cumulus-oocyte complexes removed. At this stage, the cumulus complex is not yet expanded.

The cumulus-oocyte complexes were now incubated for 20-24 hours with prostaglandin E₂ (PGE₂) (0.3 µM), vehicle control (ethanol) or test substances. Medium: alpha-MEM medium with 0.1 mM IBMX, pyruvate (0.23 mM), glutamine (2 mM), pen/strep 100 IU/ml pen. and 100 µg/ml strep.), HSA (8 mg/ml) and foetal bovine serum (FBS, 10%). The cumulus expansion was then established through the subdivision into four stages (after Vanderhyden *et al.* Dev Biol. 1990 Aug;140(2):307-317).

4.3 *In-vivo* action on post-ovulatory *in-vitro* fertilization :

Substances can exert an influence on fertility by decreasing the fertilizability of oocytes or cumulus-oocyte complexes. In order to study such effects, substances can be administered *in vivo* and subjected to *in vitro* fertilization after ovulation of cumulus-oocyte complexes has taken place. The *in-vitro* fertilization rate, where no test substance is any longer present, allows conclusions as to the *in-vivo* effects of the test substances.

Immature female mice (strain: B6D2F1, Charles River, Suelzfeld, age: 19-25 days) were kept in Macrolon cages in rooms with controlled illumination (12 hrs darkness: 12 hrs light), fed with a standard diet and provided with drinking water ad libitum.

The mice were primed with PMSG (pregnant mare serum gonadotropin) (10 IU/animal i.p.).

5 After 48 hours, a stimulus triggering ovulation was created in the animals by one administration of 10 IU/animal i.p. (hCG, human chorionic gonadotropin). The test substances were dissolved in benzyl benzoate/castor oil (1+4 v/v) and administered in a volume of 0.1 ml s.c. 1 hour before hCG (n=5 animals per group). Fourteen hours after hCG administration, the animals were killed. Ovulated oocytes and cumulus-oocyte complexes were obtained from the bursa ovarii and/or
10 oviduct and subjected to *in-vitro* fertilization, wherein for the fertilization a sperm count of 40000 sperms/0.5 ml was used for 1 hour. Twenty-four hours after the incubation with the sperms, the number of fertilized oocytes is established and the percentage fertilization rate determined.

The results in Table 4 show that Example 17 according to the invention has a dose-dependent
15 influence on the fertilizability of ovulated cumulus-oocyte complexes.

4.4 *In-vivo* action on fertility in non-human primates (Cynomolgus):

In order to study the effect of substances on fertility, mating studies can be performed in monkeys (Jensen *et al.* Contraception 81 (2010) 165–171). For this, the test substances are
20 administered to female cynomolgus monkeys (*Macaca Fascicularis*) which are being kept in groups, then the animals are mated with a male animal. Matings are checked for by sperm detection in daily vaginal smears. Pregnancies resulting therefrom are identified by hormone determinations and ultrasound examinations. Through the changes in the serum oestradiol concentrations during the cycle, (rise before the midcycle LH peak), the fertile phase within a
25 cycle of the individual animals can be determined. Matings in this fertile period are described as “timed matings” (matings in the fertile phase). Apart from the absolute number of pregnancies occurring, the effect on the fertility can also be expressed as pregnancies per “timed matings”.

To test the action of EP₂ receptor antagonists on fertility in monkeys, Examples 17 and 56 according to the invention were administered over 6 months, dissolved in 0.5 ml castor oil.
30 Example 17 was administered once daily at a dosage of 10 mg/kg (n= 10 animals), while Example 56 was administered twice daily at a dosage of 10 mg/kg (n=9 animals). Only the vehicle was administered to a control group (n=10 animals). In the first month of the treatment, no male animal was placed with the female animals. After this, female and male animals were kept together over 5 months, with detection of pregnancies and cycle monitoring.

35 Table 5 shows that both substances result in a marked reduction in the number of pregnancies occurring. These data for the first time show the strong contraceptive effect of EP₂ receptor

antagonists in the primate. Further results of the study show that the substances have no effects on hormone levels and cycle length. This confirms that the substances produce a contraceptive effect by non-hormonal mechanisms. The reversibility of the fertility was demonstrated on some animals after discontinuation of the treatment.

5. Determination of the pharmacokinetic parameters after intravenous administration**5.1. Intravenous administration:**

For this, the substances were administered in dissolved form, compatible solubilizers such as PEG400 and/or ethanol being used in tolerable quantity. The substances were administered at a dosage of 0.1 -1 mg/kg. The administration was effected in the female rat as a bolus injection. Here, at various times after bolus injection ca. 100-150 µl blood samples were withdrawn from the jugular vein via a catheter. The blood samples were treated with lithium-heparin as anticoagulant and stored refrigerated until further work-up. After centrifugation of the samples for 15 mins at 3000 rpm, an aliquot of 100 µl was withdrawn from the supernatant (plasma) and precipitated by addition of 400 µl of cold acetonitrile or methanol (absolute). The precipitated samples were frozen overnight at -20°C, then centrifuged once again for 15 mins at 3000 rpm, before 150 µl of the clear supernatant was withdrawn for the concentration determination. The analysis was performed with an Agilent 1200 HPLC system with attached LCMS/MS detection.

5.2 Calculation of the PK parameters

The calculation was performed by means of the PK calculation software WinNonLin[®], where $t_{1/2}$ means half-life within a specified interval (here: terminal $t_{1/2}$, in hrs).

Table 1: Examples for the biological activity of the compounds according to the invention on the hEP₂ receptor (IC₅₀ measured by cAMP antagonism test), selectivity towards hDP & hEP₄ (IC₅₀ measured by cAMP antagonism test): x: 1 - 10, xx: 10 - 100, xxx > 100 :

Example	Antagonism hEP2 IC ₅₀ [M]	Selectivity hEP2/hDP	Selectivity hEP2/hEP4
1	1.03E-07	xxx	xxx
2	2.17E-08	xxx	xxx
3	4.91E-09	xxx	xxx
4	6.81E-08	xxx	xxx
5	5.11E-09	xxx	xxx
6	3.13E-07	xx	xx
7	2.58E-08	xxx	xxx
8	9.37E-09	xxx	xxx
9	1.72E-08	xxx	xxx
10	8.67E-09	xxx	xxx
11	8.14E-09	xxx	xxx
12	2.03E-08	xxx	xxx
13	3.59E-08	xxx	xxx
14	3.67E-09	xxx	xxx
15	4.17E-09	xxx	xxx
16	5.85E-09	xxx	xxx
17	3.44E-09	xxx	xxx
18	7.66E-09	xxx	xxx
19	8.57E-09	xxx	xxx
20	7.33E-09	xxx	xxx
21	3.58E-08	xxx	xxx
22	3.03E-08	xxx	xxx
23	1.61E-08	xxx	xxx
24	6.01E-08	xxx	xxx
25	2.52E-08	xxx	xxx
26	2.42E-08	xxx	xxx
27	1.93E-08	xxx	xxx
28	3.39E-08	xxx	xxx
29	9.31E-09	xxx	xxx

Example	Antagonism hEP2 IC ₅₀ [M]	Selectivity hEP2/hDP	Selectivity hEP2/hEP4
30	6.43E-08	xxx	xxx
31	3.08E-09	xxx	xxx
32	1.04E-08	xxx	xxx
33	3.42E-08	xxx	xxx
34	1.34E-07	xxx	xxx
35	6.92E-08	xxx	xxx
36	6.16E-08	xxx	xxx
37	1.04E-07	xxx	xxx
38	2.81E-08	xxx	xxx
39	1.13E-07	xxx	xxx
40	1.15E-08	xxx	xxx
41	5.62E-09	xxx	xxx
42	4.75E-09	xxx	xxx
43	4.82E-09	xxx	xxx
44	3.85E-09	xxx	xxx
45	5.51E-09	xxx	xxx
46	4.91E-09	xxx	xxx
47	5.61E-09	xxx	xxx
48	5.59E-09	xxx	xxx
49	6.44E-09	xxx	xxx
50	3.18E-09	xxx	xxx
51	6E-08	xxx	xxx
52	8.3E-07	xx	xx
53	4.42E-08	xxx	xxx
54	4.74E-09	xxx	xxx
55	9.67E-09	xxx	xxx
56	1.31E-08	xxx	xxx
57	5.29E-09	xxx	xxx
58	1.08E-06	xx	xx
59	7.58E-07	xx	xx
60	1.75E-07	xx	xx
61	1.5E-06	xx	xx
62	6.74E-07	xx	xx

Example	Antagonism hEP2 IC ₅₀ [M]	Selectivity hEP2/hDP	Selectivity hEP2/hEP4
63	1.44E-06	xx	xx
64	4.13E-06	x	x
65	2.79E-06	x	x
66	3.21E-07	xx	xx
67	4.05E-07	xx	xx
68	1.77E-08	xxx	xxx
69	2.9E-08	xxx	
70	4.9E-08	xxx	
71	8.29E-08	xxx	xxx
72	1.2E-07	xxx	xxx
73	7.78E-08	xxx	xxx
74	9.54E-08	xxx	xxx
75	6.7E-08	xxx	xxx
76	1.79E-07	xx	xx
77	5.39E-08	xxx	xxx
78	3.17E-08	xxx	xxx
79	1.25E-07	xxx	xxx
80	8.59E-08	xxx	xxx
81	5.13E-07	xx	xx
82	2.18E-07	xx	xx
83	3.26E-08	xxx	xxx
84	1.92E-08	xxx	xxx
85	3.55E-08	xxx	xxx
86	1.54E-08	xxx	xxx
87	2.4E-08	xxx	xxx
88	1.62E-08	xxx	xxx
89	9.4E-09	xxx	xxx
90	1.48E-08	xxx	xxx
91	2.03E-08	xxx	xxx
92	1.27E-08	xxx	xxx
93	1.15E-08	xxx	xxx
94	1.28E-08	xxx	xxx
95	6.18E-09	xxx	xxx

Example	Antagonism hEP2 IC ₅₀ [M]	Selectivity hEP2/hDP	Selectivity hEP2/hEP4
96	9.42E-09	xxx	xxx
97	1.27E-08	xxx	xxx
98	7.07E-09	xxx	xxx
99	1.04E-08	xxx	xxx
100	6.21E-09	xxx	xxx
101	6.58E-09	xxx	xxx
102	4.1E-07	xx	xx
103	5.95E-07	xx	xx
104	5.13E-07	xx	xx
105	2.85E-07	xx	xx
106	1.5E-07	xxx	xxx
107	1.14E-08	xxx	xxx
108	6.46E-09	xxx	xxx
109	9.53E-09	xxx	xxx
110	4.4E-09	xxx	xxx
111	1.37E-08	xxx	xxx
112	1.19E-08	xxx	xxx
113	1.39E-08	xxx	xxx
114	6.08E-09	xxx	xxx
115	9.05E-09	xxx	xxx
116	5.52E-09	xxx	xxx
117	1.78E-08	xxx	xxx
118	8.17E-09	xxx	
119	1.32E-08	xxx	
120	1.55E-08	xxx	
121	1.55E-08	xxx	xxx
122	2.86E-08	xxx	xxx
123	8.92E-09	xxx	xxx
124	7.99E-09	xxx	xxx
125	3.66E-09	xxx	xxx
126	2.12E-08	xxx	xxx
127	5.56E-08	xxx	xxx
128	4.71E-07	xx	xx

Example	Antagonism hEP2 IC ₅₀ [M]	Selectivity hEP2/hDP	Selectivity hEP2/hEP4
129	3.09E-07	xx	xx
130	2.41E-07	xx	xx
131	2.28E-07	xx	xx
132	1.09E-07	xxx	xxx
133	4.19E-08	xxx	xxx
134	5.65E-08	xxx	xxx
135	1.95E-08	xxx	xxx
136	6.59E-09	xxx	xxx
137	7.65E-09	xxx	xxx
138	1.6E-07	xxx	xxx
139	4.19E-07	xx	xx
140	5.53E-08	xxx	xxx
141	1.43E-07	xxx	xxx
142	7.13E-07	xx	xx
143	3.68E-08	xxx	xxx
144	5.08E-08	xxx	xxx
145	1.88E-08	xxx	xxx
146	5.26E-08	xxx	xxx
147	5.74E-08	xxx	xxx
148	2.74E-08	xxx	xxx
149	2.96E-08	xxx	xxx
150	1.28E-08	xxx	xxx
151	4.85E-08	xxx	xxx
152	3.33E-08	xxx	xxx
153	6.08E-08	xxx	xxx
154	8.08E-08	xxx	xxx
155	2.94E-08	xxx	xxx
156	1.84E-07	xx	xx
157	1.36E-08	xxx	xxx
158	6.21E-09	xxx	xxx
159	6.24E-09	xxx	xxx
160	8.29E-08	xxx	xxx
161	9.82E-08	xxx	xxx

Example	Antagonism hEP2 IC ₅₀ [M]	Selectivity hEP2/hDP	Selectivity hEP2/hEP4
162	9.33E-09	xxx	xxx
163	6.8E-09	xxx	xxx
164	1.09E-08	xxx	xxx
165	3.34E-08	xxx	xxx
166	2.87E-09	xxx	xxx
167	1.35E-08	xxx	xxx
168	2.93E-08	xxx	xxx
169	2.77E-08	xxx	xxx
170	4.25E-09	xxx	xxx
171	3.88E-09	xxx	xxx
172	3.16E-09	xxx	xxx
173	2.71E-09	xxx	xxx
174	6.58E-09	xxx	xxx
175	8.05E-09	xxx	xxx
176	7.77E-09	xxx	xxx
177	1.18E-07	xxx	xxx
178	6.83E-08	xxx	xxx
179	2.61E-06	x	x
180	1.73E-08	xxx	xxx
181	3.52E-08	xxx	xxx
182	6.42E-08	xxx	xxx
183	4.66E-08	xxx	xxx
184	7.68E-08	xxx	xxx
185	2.48E-08	xxx	xxx
186	5.19E-08	xxx	xxx
187	2.35E-08	xxx	xxx
188	1.49E-07	xxx	xxx
189	3.36E-08	xxx	xxx
190	2.72E-07	xx	xx
191	4.71E-08	xxx	xxx
192	2.06E-07	xx	xx
193	1.45E-07	xxx	xxx
194	4.09E-08	xxx	xxx

Example	Antagonism hEP2 IC ₅₀ [M]	Selectivity hEP2/hDP	Selectivity hEP2/hEP4
195	2.27E-07	xx	xx
196	5.08E-08	xxx	xxx
197	6.32E-08	xxx	xxx
198	1.53E-07	xxx	xxx
199	9.71E-08	xxx	xxx
200	1.51E-08	xxx	xxx
201	2.49E-08	xxx	xxx
202	5.06E-09	xxx	xxx
203	8.57E-08	xxx	xxx
204	1E-08	xxx	xxx
205	4.33E-08	xxx	xxx
206	4.13E-08	xxx	xxx
207	3.03E-08	xxx	xxx
208	8.06E-08	xxx	xxx
209	2.51E-08	xxx	xxx
210	1.95E-08	xxx	xxx
211	5.01E-08	xxx	xxx
212	1.06E-07	xxx	xxx
213	8.24E-08	xxx	xxx
214	6.49E-08	xxx	xxx
215	3.9E-08	xxx	xxx
216	8.61E-08	xxx	xxx
217	1.14E-07	xxx	xxx
218	1.28E-07	xxx	xxx
219	2.73E-07	xx	xx
220	1.47E-07	xxx	xxx
221	2.35E-07	xx	xx
222	4.09E-08	xxx	xxx
223	2E-08	xxx	xxx
224	5.62E-09	xxx	xxx
225	1.43E-08	xxx	xxx
226	1.19E-08	xxx	xxx
227	9.89E-09	xxx	xxx

Example	Antagonism hEP2 IC ₅₀ [M]	Selectivity hEP2/hDP	Selectivity hEP2/hEP4
228	8.09E-09	xxx	xxx
229	1.02E-08	xxx	xxx
230	1.37E-08	xxx	xxx
231	1.32E-08	xxx	xxx
232	3.83E-08	xxx	xxx
233	3.97E-08	xxx	xxx
234	4.77E-08	xxx	xxx
235	1.67E-08	xxx	xxx
236	5.75E-08	xxx	xxx
237	3.1E-08	xxx	xxx
238	3.24E-08	xxx	xxx
239	2.7E-08	xxx	xxx
240	2.51E-08	xxx	xxx
241	9.03E-09	xxx	xxx
242	3.05E-07	xx	xx
243	3.35E-07	xx	xx
244	4.42E-08	xxx	xxx
245	7.79E-09	xxx	xxx
246	9.23E-09	xxx	xxx
247	1.26E-08	xxx	xxx
248	1.47E-08	xxx	xxx
249	1.12E-08	xxx	xxx
250	3.06E-08	xxx	xxx
251	3.81E-06	x	x
252	2.95E-07	xx	xx
253	1.68E-07	xx	xx
254	5.52E-08	xxx	xxx
255	8.35E-08	xxx	xxx
256	1.07E-07		xxx
257	1.02E-07	xxx	xxx
258	1.09E-07	xxx	xxx
259	2.56E-08	xxx	xxx
260	8.02E-09	xxx	xxx

Example	Antagonism hEP2 IC ₅₀ [M]	Selectivity hEP2/hDP	Selectivity hEP2/hEP4
261	8.1E-08	xxx	xxx
262	3.34E-08	xxx	xxx
263	1.81E-07	xx	xx
264	1.37E-08	xxx	xxx
265	3.15E-08	xxx	xxx
266	1.89E-08	xxx	xxx
267	4.55E-08	xxx	xxx
268	2.29E-08	xxx	xxx
269	7.54E-09	xxx	xxx
270	5.31E-08	xxx	xxx
271	3.35E-08	xxx	xxx
272	2.37E-08	xxx	xxx
273	1.85E-08	xxx	xxx
274	4.46E-08	xxx	xxx
275	3.45E-08	xxx	xxx
276	2.26E-07	xx	xx
277	4.79E-08	xxx	xxx
278	1.04E-07	xxx	xxx
279	5.74E-08	xxx	xxx
280	3.07E-08	xxx	xxx
281	2.3E-08	xxx	xxx
282	2.01E-08	xxx	xxx
283	6.55E-08	xxx	xxx
284	5.64E-08	xxx	xxx
285	1E-07	xxx	xxx
286	1E-07	xxx	xxx
287	1.05E-06	xx	xx
288	4E-08	xxx	xxx
289	5.16E-08	xxx	xxx
290	4.26E-08	xxx	xxx
291	5.94E-09	xxx	xxx
292	2E-08	xxx	xxx
293	2.83E-08	xxx	xxx

Example	Antagonism hEP2 IC ₅₀ [M]	Selectivity hEP2/hDP	Selectivity hEP2/hEP4
294	1.32E-08	xxx	xxx
295	7.08E-08	xxx	xxx
296	2.97E-08	xxx	xxx
297	4.6E-07	xx	xx
298	3.45E-07	xx	xx
299	5.41E-07	xx	xx
300	7.98E-08	xxx	xxx
301	2.45E-08	xxx	xxx
302	1.31E-07	xxx	xxx
303	1.39E-08	xxx	xxx
304	9.98E-08	xxx	xxx
305	3.01E-07	xx	xx
306	7.66E-08	xxx	xxx
307	3.06E-08	xxx	xxx
308	2.22E-08	xxx	xxx
309	6.6E-08	xxx	xxx
310	8.06E-07	xx	xx
311	8.41E-08	xxx	xxx
312	1.58E-07	xxx	xxx
313	8.94E-08	xxx	xxx
314	2.78E-08	xxx	xxx
315	4.3E-08	xxx	xxx
316	7.9E-08	xxx	xxx
317	1.81E-07	xx	xx
318	2.63E-08	xxx	xxx
319	3.15E-07	xx	xx
320	1.56E-08	xxx	xxx
321	1.01E-07	xxx	xxx
322	7.62E-08	xxx	xxx
323	1.28E-07	xxx	xxx
324	4.6E-07	xx	xx
325	3.21E-07	xx	xx
326	4.85E-07	xx	xx

Example	Antagonism hEP2 IC ₅₀ [M]	Selectivity hEP2/hDP	Selectivity hEP2/hEP4
327	1.21E-06	xx	xx
328	2.56E-07	xx	xx
329	2.32E-07	xx	xx
330	9.53E-09	xxx	xxx
331	9.47E-09	xxx	xxx
332	5.47E-09	xxx	xxx
333	6.42E-09	xxx	xxx
334	7.42E-08	xxx	xxx
335	5.09E-09	xxx	xxx
336	5.59E-09	xxx	xxx
337	1.81E-08	xxx	xxx
338	2.8E-08	xxx	xxx
339	7.15E-09	xxx	xxx
340	1.99E-08	xxx	xxx
341	5.53E-08	xxx	xxx
342	1.03E-07	xxx	xxx
343	4.24E-08	xxx	xxx
344	1.03E-08	xxx	xxx
345	6.26E-09	xxx	xxx
346	1.49E-08	xxx	xxx
347	7.88E-09	xxx	xxx
348	8.88E-09	xxx	xxx
349	4.82E-09	xxx	xxx
350	8.41E-09	xxx	xxx
351	6.84E-09	xxx	xxx
352	2.17E-08	xxx	xxx
353	5.02E-08	xxx	xxx
354	5.87E-09	xxx	xxx
355	5.39E-09	xxx	xxx
356	6.36E-08	xxx	xxx
357	7.36E-09	xxx	xxx
358	8.01E-09	xxx	xxx
359	6.99E-09	xxx	xxx

Example	Antagonism hEP2 IC ₅₀ [M]	Selectivity hEP2/hDP	Selectivity hEP2/hEP4
360	6.27E-09	xxx	xxx
361	5.11E-09	xxx	xxx
362	1.51E-08	xxx	xxx
363	5.48E-09	xxx	xxx
364	6.61E-09	xxx	xxx
365	5.3E-09	xxx	xxx
366	1.89E-08	xxx	xxx
367	5.84E-09	xxx	xxx
368	1.2E-08	xxx	xxx
369	5.66E-09	xxx	xxx
370	3.07E-09	xxx	xxx
371	6.11E-09	xxx	xxx
372	7.29E-09	xxx	xxx
373	4.07E-08	xxx	xxx
374	6.58E-09	xxx	xxx
375	5.8E-09	xxx	xxx
376	3.59E-09	xxx	xxx
377	2.73E-08	xxx	xxx
378	7.77E-09	xxx	xxx
379	6.26E-08	xxx	xxx
380	5.35E-09	xxx	xxx
381	5.84E-09	xxx	xxx
382	1.94E-08	xxx	xxx
383	5.78E-09	xxx	xxx
384	3.95E-09	xxx	xxx
385	1.31E-08	xxx	xxx
386	2.57E-08	xxx	xxx
387	1.32E-08	xxx	xxx
388	2.05E-08	xxx	xxx
389	4.51E-09	xxx	xxx
390	3.14E-09	xxx	xxx
391	6.07E-09	xxx	xxx
392	2.18E-08	xxx	xxx

Example	Antagonism hEP2 IC ₅₀ [M]	Selectivity hEP2/hDP	Selectivity hEP2/hEP4
393	5E-08	xxx	xxx
394	5.7E-09	xxx	xxx
395	3.04E-08	xxx	xxx
396	1.8E-08	xxx	xxx
397	1.25E-08	xxx	xxx
398	1.82E-08	xxx	xxx
399	5.93E-07	xx	xx
400	5.61E-08	xxx	xxx
401	1.55E-07	xxx	xxx
402	7.77E-08	xxx	xxx
403	9.59E-09	xxx	xxx
404	2.02E-08	xxx	xxx
405	2.14E-06	x	x
406	8.19E-09	xxx	xxx
407	1.16E-08	xxx	xxx
408	2.35E-08	xxx	xxx
409	3.18E-08	xxx	xxx
410	9.04E-08	xxx	xxx
411	1.65E-08	xxx	xxx
412	6.35E-08	xxx	xxx
413	3.78E-08	xxx	xxx
414	2.23E-07	xx	xx
415	2.13E-08	xxx	xxx
416	1.07E-08	xxx	xxx
417	9.75E-09	xxx	xxx
418	1.58E-08	xxx	xxx
419	1.09E-08	xxx	xxx

Table 2: Reduction in the cumulus expansion in percent with use of 0.3 μ M PGE2 for stimulation, reference 1: example 62 from DE102009049662A1

Example	% reduction at 1 μ M	% reduction at 0.5 μ M
Reference 1*	79% (*reduction at 10 μ M)	

Example 5	59	56
Example 17	76	71
Example 42	79	48
Example 117	54	30
Example 283	26	25
Example 291	73	76
Example 303	47	38
Example 345	36	18

Table 3: Terminal half-life ($t_{1/2}$) after intravenous administration in the female rat, reference 1: example 62 from DE102009049662A1

Example	$t_{1/2}$ [hr]
Reference 1	0.4
Example 17	2.5
Example 42	3.2
Example 117	2.0
Example 283	5.8

5

Table 4: Reduction in *in-vitro* fertilization rate after *in-vivo* administration of the test substance:

Example	% fertilization with vehicle	% fertilization with 1 mg/kg	% fertilization with 5 mg/kg	% fertilization with 10 mg/kg
Example 17	30 ± 9	20 ± 10	9 ± 1	8 ± 4

10

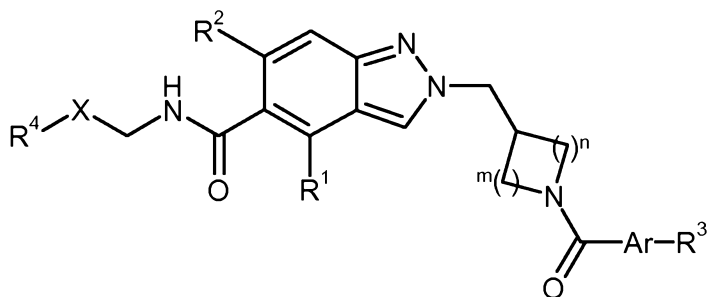
Table 5: Reduction in the pregnancy rates in the non-human primate (*Cynomolgus*)

Group	Animals per group	Number of “timed matings”*	Pregnancies	% Pregnancies/ “timed mating”
Control	10	21	8	38
Example 17	10	25	3	6
Example 56	9	34	2	12

*Detection of vaginal sperms in the fertile phase of the cycle

Claims:

1. Compounds of the general formula (I)



5 wherein

R^1 : means H, C_1-C_2 alkyl or C_1-C_2 alkyloxy;

R^2 : H or methyl;

10 subject to the proviso that one of the two residues R^1 or R^2 equals H;

X: $-(CH_2)_l-$, $-(CH_2)_k-O-$, $-CH_2-S-$, $-CH_2-S(O)_2-$, $-CH(CH_3)-$, $-CH(CH_3)-O-$ or $-C(CH_3)_2-O-$;

15 k: 1 or 2;

l: 0, 1 or 2;

R^4 : H, C_1-C_4 alkyl, C_3-C_4 cycloalkyl or $CH_2-C_3-C_4$ cycloalkyl;

20

and in the case of X: $-CH_2-$ or $-CH(CH_3)-$

R^4 : additionally means a 4-6-membered heterocyclyl residue;

25 and in the case of X: $-(CH_2)_l-$ or $-CH(CH_3)-$

R^4 : additionally means CN;

or

30

- X together with R⁴ form a 4-6-membered heterocyclyl residue via a ring carbon linkage;
- m: 1 or 2;
- 5 n: 1 or 2;
- Ar: a 6-10-membered aryl or 5-10-membered hetaryl residue,
- 10 R³: halogen, CN, SF₅, C₁-C₄ alkyl, C₃-C₆ cycloalkyl, C₄-C₆ heterocyclyl, O-C₁-C₄ alkyl, O-C₃-C₆ cycloalkyl, O-C₄-C₆ heterocyclyl, S-C₁-C₄ alkyl, S(O)₂-C₁-C₄ alkyl, Ar', O-Ar', C(CH₃)₂-CN or C(CH₃)₂-OH; and
- Ar': an optionally singly or doubly substituted 6-membered aryl or 5-6-membered
- 15 heteroaryl residue;
- wherein the substituents are selected from F, Cl, CN, C₁-C₄ alkyl, O-C₁-C₄ alkyl, C(CH₃)₂-CN, C(CH₃)₂-OH and C(O)NH₂;
- and isomers, diastereomers, enantiomers and salts or cyclodextrin clathrates thereof.

20

2. Compounds according to Claim 1, wherein

25 R¹, R²: mean H or methyl;

25

subject to the proviso that one of the two residues R¹ or R² equals H;

X: -(CH₂)_l- or -(CH₂)_k-O-;

30

k: 1 or 2;

l: 0, 1 or 2;

R⁴: C₁-C₄ alkyl, C₃-C₄ cycloalkyl or CH₂-C₃-C₄ cycloalkyl; and

35

m, n: 2;

and isomers, diastereomers, enantiomers and salts or cyclodextrin clathrates thereof and R^3 , Ar and Ar' have the meanings stated in Claim 1.

5

3. Compounds according to Claim 1 - 2, wherein

R^1, R^2 : mean H or methyl;

10

subject to the proviso that one of the two residues R^1 or R^2 equals H;

X: $-(CH_2)_l-$ or $-(CH_2)_k-O-$;

15

k: 1 or 2;

l: 0, 1 or 2;

R^4 : C_1-C_4 alkyl, C_3-C_4 cycloalkyl or $CH_2-C_3-C_4$ cycloalkyl; and

20

m, n: 1;

and isomers, diastereomers, enantiomers and salts or cyclodextrin clathrates thereof and R^3 , Ar and Ar' have the meanings stated in Claim 1.

25

4. Compounds according to Claim 1 - 3, wherein

R^1 : means methyl;

30

R^2 : H;

X: $-(CH_2)_l-$ or $-(CH_2)_k-O-$;

k: 1;

35

l: 0 or 1;

R⁴: C₁-C₄ alkyl, C₃-C₄ cycloalkyl or CH₂-C₃-C₄ cycloalkyl;

m, n: 2; and

Ar: a phenyl residue;

and isomers, diastereomers, enantiomers and salts or cyclodextrin clathrates thereof and R³ and Ar' have the meanings stated in Claim 1.

5. Compounds according to Claim 1 - 4, wherein

R¹: means a methyl group;

R²: H;

X: -(CH₂)_l- or -(CH₂)_k-O-;

k: 1;

l: 0 or 1;

R⁴: C₁-C₄ alkyl, C₃-C₄ cycloalkyl or CH₂-C₃-C₄ cycloalkyl;

m, n: 1; and

Ar: a phenyl residue;

and isomers, diastereomers, enantiomers and salts or cyclodextrin clathrates thereof and R³ and Ar' have the aforesaid meanings.

6. Compounds according to Claim 4 and 5 selected from a group which contains the following compounds:

1. 2- {[1-(4-cyano-2-fluorobenzoyl)piperidin-4-yl]methyl} -N-(2-methoxyethyl)-4-methyl-2H-indazol-5-carboxamide
2. 2- {[1-(4-tert-butoxybenzoyl)piperidin-4-yl]methyl} -N-(2-methoxyethyl)-4-methyl-2H-indazol-5-carboxamide
- 5 3. 2- ({1-[4-(4-fluorophenoxy)benzoyl]piperidin-4-yl} methyl)-N-(2-methoxyethyl)-4-methyl-2H-indazol-5-carboxamide
4. N-(2-methoxyethyl)-4-methyl-2- {[1-(4-morpholinobenzoyl)piperidin-4-yl]methyl} -2H-indazol-5-carboxamide
5. 2- ({1-[(4'-fluorobiphenyl-4-yl)carbonyl]piperidin-4-yl} methyl)-N-(2-methoxyethyl)-4-methyl-2H-indazol-5-carboxamide
- 10 6. 2- {[1-(2-fluoro-4-mesybenzoyl)piperidin-4-yl]methyl} -N-(2-methoxyethyl)-4-methyl-2H-indazol-5-carboxamide
7. 2- {[1-(2-fluoro-4-methoxybenzoyl)piperidin-4-yl]methyl} -N-(2-methoxyethyl)-4-methyl-2H-indazol-5-carboxamide
- 15 8. 2- {[1-(4-bromo-2-fluorobenzoyl)piperidin-4-yl]methyl} -N-(2-methoxyethyl)-4-methyl-2H-indazol-5-carboxamide
9. 2- {[1-(2-fluoro-4-methylbenzoyl)piperidin-4-yl]methyl} -N-(2-methoxyethyl)-4-methyl-2H-indazol-5-carboxamide
10. 2- ({1-[2-fluoro-4-(trifluoromethyl)benzoyl]piperidin-4-yl} methyl)-N-(2-methoxyethyl)-4-methyl-2H-indazol-5-carboxamide
- 20 11. N-(2-methoxyethyl)-4-methyl-2- ({1-[4-(pentafluoro- λ^6 -sulphonyl)benzoyl]piperidin-4-yl} methyl)-2H-indazol-5-carboxamide
12. N-(2-methoxyethyl)-4-methyl-2- {[1-(4-methylbenzoyl)piperidin-4-yl]methyl} -2H-indazol-5-carboxamide
- 25 13. 2- ({1-[4-(4-chlorophenoxy)benzoyl]piperidin-4-yl} methyl)-N-(2-methoxyethyl)-4-methyl-2H-indazol-5-carboxamide
14. N-(2-methoxyethyl)-4-methyl-2- ({1-[4-(4-methylphenoxy)benzoyl]piperidin-4-yl} methyl)-2H-indazol-5-carboxamide
15. 2- ({1-[4-(4-tert-butylphenoxy)benzoyl]piperidin-4-yl} methyl)-N-(2-methoxyethyl)-4-methyl-2H-indazol-5-carboxamide
- 30 16. N-(2-methoxyethyl)-4-methyl-2- [{1- {4-[4-(trifluoromethyl)phenoxy]benzoyl} piperidin-4-yl} methyl]-2H-indazol-5-carboxamide
17. N-(2-methoxyethyl)-2- ({1-[4-(4-methoxyphenoxy)benzoyl]piperidin-4-yl} methyl)-4-methyl-2H-indazol-5-carboxamide
- 35 18. N-(2-methoxyethyl)-4-methyl-2- {[1-(4-phenoxybenzoyl)piperidin-4-yl]methyl} -2H-indazol-5-carboxamide

19. 2- {[1-(4-cyclopropylbenzoyl)piperidin-4-yl]methyl} -N-(2-methoxyethyl)-4-methyl-2H-indazol-5-carboxamide
20. 2- {[1-(4-methoxybenzoyl)piperidin-4-yl]methyl} -N-(2-methoxyethyl)-4-methyl-2H-indazol-5-carboxamide
- 5 21. 2- {[1-(4-fluorobenzoyl)piperidin-4-yl]methyl} -N-(2-methoxyethyl)-4-methyl-2H-indazol-5-carboxamide
22. N-(2-methoxyethyl)-4-methyl-2-({1-[4-(trifluoromethyl)benzoyl]piperidin-4-yl} methyl)-2H-indazol-5-carboxamide
23. 2- {[1-(2-methoxybenzoyl)piperidin-4-yl]methyl} -N-(2-methoxyethyl)-4-methyl-2H-indazol-5-carboxamide
- 10 24. N-(2-methoxyethyl)-4-methyl-2-[(1-{4-[(trifluoromethyl)sulphonyl]benzoyl} piperidin-4-yl)methyl]-2H-indazol-5-carboxamide
25. N-(2-methoxyethyl)-4-methyl-2-({1-[3-(trifluoromethyl)benzoyl]piperidin-4-yl} methyl)-2H-indazol-5-carboxamide
- 15 26. N-(2-methoxyethyl)-4-methyl-2- {[1-(3-methylbenzoyl)piperidin-4-yl]methyl} -2H-indazol-5-carboxamide
27. 2- {[1-(3-chlorobenzoyl)piperidin-4-yl]methyl} -N-(2-methoxyethyl)-4-methyl-2H-indazol-5-carboxamide
28. 2-({1-[4-(4-carbamoylphenoxy)benzoyl]piperidin-4-yl} methyl)-N-(2-methoxyethyl)-4-methyl-2H-indazol-5-carboxamide
- 20 29. 2-({1-[4-(cyclopentyloxy)benzoyl]piperidin-4-yl} methyl)-N-(2-methoxyethyl)-4-methyl-2H-indazol-5-carboxamide
30. 2-({1-[4-(difluoromethyl)benzoyl]piperidin-4-yl} methyl)-N-(2-methoxyethyl)-4-methyl-2H-indazol-5-carboxamide
- 25 31. 2- {[1-(4-cyanobenzoyl)piperidin-4-yl]methyl} -N-(2-methoxyethyl)-4-methyl-2H-indazol-5-carboxamide
32. 2-({1-[4-(1H-imidazol-1-yl)benzoyl]piperidin-4-yl} methyl)-N-(2-methoxyethyl)-4-methyl-2H-indazol-5-carboxamide
33. N-(2-methoxyethyl)-4-methyl-2-({1-[4-(oxazol-2-yl)benzoyl]piperidin-4-yl} methyl)-2H-indazol-5-carboxamide
- 30 34. N-(2-methoxyethyl)-4-methyl-2-({1-[4-(oxazol-5-yl)benzoyl]piperidin-4-yl} methyl)-2H-indazol-5-carboxamide
35. N-(2-methoxyethyl)-4-methyl-2-({1-[4-(isoxazol-5-yl)benzoyl]piperidin-4-yl} methyl)-2H-indazol-5-carboxamide
- 35 36. N-(2-methoxyethyl)-4-methyl-2-({1-[4-(1H-pyrazol-1-yl)benzoyl]piperidin-4-yl} methyl)-2H-indazol-5-carboxamide

37. N-(2-methoxyethyl)-4-methyl-2-({1-[4-(1H-1,2,4-triazol-1-yl)benzoyl]piperidin-4-yl}-methyl)-2H-indazol-5-carboxamide
38. 2-({1-[4-(difluoromethoxy)-2-fluorobenzoyl]piperidin-4-yl}methyl)-N-(2-methoxyethyl)-4-methyl-2H-indazol-5-carboxamide
- 5 39. 2-({1-[2-fluoro-4-(pyrrolidin-1-yl)benzoyl]piperidin-4-yl}methyl)-N-(2-methoxyethyl)-4-methyl-2H-indazol-5-carboxamide
40. 2-({1-[(3,4'-difluorobiphenyl-4-yl)carbonyl]piperidin-4-yl}methyl)-N-(2-methoxyethyl)-4-methyl-2H-indazol-5-carboxamide
41. 2-({1-[(3-fluoro-4'-methoxybiphenyl-4-yl)carbonyl]piperidin-4-yl}methyl)-N-(2-methoxyethyl)-4-methyl-2H-indazol-5-carboxamide
- 10 42. 2-({1-[(3-fluoro-4'-methylbiphenyl-4-yl)carbonyl]piperidin-4-yl}methyl)-N-(2-methoxyethyl)-4-methyl-2H-indazol-5-carboxamide
43. 2-([1-({[3-fluoro-3'-(trifluoromethyl)biphenyl-4-yl]carbonyl}piperidin-4-yl)methyl]-N-(2-methoxyethyl)-4-methyl-2H-indazol-5-carboxamide
- 15 44. 2-([1-({[3-fluoro-2'-(trifluoromethoxy)biphenyl-4-yl]carbonyl}piperidin-4-yl)methyl]-N-(2-methoxyethyl)-4-methyl-2H-indazol-5-carboxamide
45. 2-({1-[(2'-fluorobiphenyl-4-yl)carbonyl]piperidin-4-yl}methyl)-N-(2-methoxyethyl)-4-methyl-2H-indazol-5-carboxamide
46. 2-({1-[(2',4'-difluorobiphenyl-4-yl)carbonyl]piperidin-4-yl}methyl)-N-(2-methoxyethyl)-4-methyl-2H-indazol-5-carboxamide
- 20 47. 2-({1-[(2-fluorobiphenyl-4-yl)carbonyl]piperidin-4-yl}methyl)-N-(2-methoxyethyl)-4-methyl-2H-indazol-5-carboxamide
48. N-(2-methoxyethyl)-4-methyl-2-({1-[(2'-methylbiphenyl-4-yl)carbonyl]piperidin-4-yl}-methyl)-2H-indazol-5-carboxamide
- 25 49. N-(2-methoxyethyl)-4-methyl-2-({1-[4-(4-pyridyloxy)benzoyl]piperidin-4-yl}methyl)-2H-indazol-5-carboxamide
50. N-(2-methoxyethyl)-4-methyl-2-({1-[4-(4H-1,2,4-triazol-4-yl)benzoyl]piperidin-4-yl}-methyl)-2H-indazol-5-carboxamide
51. 2-{{1-(2-fluoro-4-morpholinobenzoyl)piperidin-4-yl}methyl}-N-(2-methoxyethyl)-4-methyl-2H-indazol-5-carboxamide
- 30 52. 2-{{1-(4-bromobenzoyl)piperidin-4-yl}methyl}-N-(2-methoxyethyl)-4-methyl-2H-indazol-5-carboxamide
53. N-(2-methoxyethyl)-4-methyl-2-({1-[4-(trifluoromethoxy)benzoyl]piperidin-4-yl}-methyl)-2H-indazol-5-carboxamide
- 35 54. 2-{{1-(4-chlorobenzoyl)piperidin-4-yl}methyl}-N-(2-methoxyethyl)-4-methyl-2H-indazol-5-carboxamide

55. N-(2-methoxyethyl)-4-methyl-2-[(1-{4-[(trifluoromethyl)sulphanyl]benzoyl}piperidin-4-yl)methyl]-2H-indazol-5-carboxamide
56. 4-methyl-2-({1-[4-(pentafluoro- λ^6 -sulphanyl)benzoyl]piperidin-4-yl}methyl)-N-(2,2,2-trifluoroethyl)-2H-indazol-5-carboxamide
- 5 57. 2-({1-(4-chlorobenzoyl)piperidin-4-yl}methyl)-4-methyl-N-(2,2,2-trifluoroethyl)-2H-indazol-5-carboxamide
58. 4-methyl-N-(2,2,2-trifluoroethyl)-2-({1-[4-(trifluoromethoxy)benzoyl]piperidin-4-yl}methyl)-2H-indazol-5-carboxamide
59. 2-({1-[4-chlorobenzoyl]piperidin-4-yl}methyl)-N-[2-(cyclopropylmethoxy)ethyl]-4-methyl-2H-indazole-5-carboxamide
- 10 60. N-[2-(cyclopropylmethoxy)ethyl]-4-methyl-2-({1-[4-(4-methylbenzoyl)piperidin-4-yl]methyl}-2H-indazol-5-carboxamide
61. N-[2-(cyclopropylmethoxy)ethyl]-2-({1-[4-(4-fluorophenoxy)benzoyl]piperidin-4-yl}methyl)-4-methyl-2H-indazol-5-carboxamide
- 15 62. N-[2-(cyclopropylmethoxy)ethyl]-4-methyl-2-({1-[4-(trifluoromethyl)benzoyl]piperidin-4-yl}methyl)-2H-indazol-5-carboxamide
63. N-[2-(cyclopropylmethoxy)ethyl]-2-({1-[(4'-fluorobiphenyl-4-yl)carbonyl]piperidin-4-yl}methyl)-4-methyl-2H-indazol-5-carboxamide
64. 2-({1-[4-(cyclopropylbenzoyl)piperidin-4-yl]methyl}-N-[2-(cyclopropylmethoxy)ethyl]-4-methyl-2H-indazol-5-carboxamide
- 20 65. 2-({1-(4-chlorobenzoyl)piperidin-4-yl}methyl)-4-methyl-N-[2-(2,2,2-trifluoroethoxy)ethyl]-2H-indazol-5-carboxamide
66. 4-methyl-2-({1-[4-(4-methylbenzoyl)piperidin-4-yl]methyl}-N-[2-(2,2,2-trifluoroethoxy)ethyl]-2H-indazol-5-carboxamide
- 25 67. 2-({1-[4-(4-fluorophenoxy)benzoyl]piperidin-4-yl}methyl)-4-methyl-N-[2-(2,2,2-trifluoroethoxy)ethyl]-2H-indazol-5-carboxamide
68. 4-methyl-N-[2-(2,2,2-trifluoroethoxy)ethyl]-2-({1-[4-(trifluoromethyl)benzoyl]piperidin-4-yl}methyl)-2H-indazol-5-carboxamide
69. 2-({1-[(4'-fluorobiphenyl-4-yl)carbonyl]piperidin-4-yl}methyl)-4-methyl-N-[2-(2,2,2-trifluoroethoxy)ethyl]-2H-indazol-5-carboxamide
- 30 70. 2-({1-[4-(cyclopropylbenzoyl)piperidin-4-yl]methyl}-4-methyl-N-[2-(2,2,2-trifluoroethoxy)ethyl]-2H-indazol-5-carboxamide
71. 2-({1-[4-chlorobenzoyl]piperidin-4-yl}methyl)-N-(2-isopropoxyethyl)-4-methyl-2H-indazol-5-carboxamide
- 35 72. N-(2-isopropoxyethyl)-4-methyl-2-({1-[4-(4-methylbenzoyl)piperidin-4-yl]methyl}-2H-indazol-5-carboxamide

73. 2-({1-[4-(4-fluorophenoxy)benzoyl]piperidin-4-yl} methyl)-N-(2-isopropoxyethyl)-4-methyl-2H-indazol-5-carboxamide
74. N-(2-isopropoxyethyl)-4-methyl-2-({1-[4-(trifluoromethyl)benzoyl]piperidin-4-yl}-methyl)-2H-indazol-5-carboxamide
- 5 75. 2-({1-[(4'-fluorobiphenyl-4-yl)carbonyl]piperidin-4-yl} methyl)-N-(2-isopropoxyethyl)-4-methyl-2H-indazol-5-carboxamide
76. 2-{{1-(4-cyclopropylbenzoyl)piperidin-4-yl} methyl} -N-(2-isopropoxyethyl)-4-methyl-2H-indazol-5-carboxamide
77. 2-{{1-(4-chlorobenzoyl)piperidin-4-yl} methyl} -4-methyl-N-[2-(trifluoromethoxy)ethyl]-2H-indazol-5-carboxamide
- 10 78. 2-({1-[4-(4-fluorophenoxy)benzoyl]piperidin-4-yl} methyl)-4-methyl-N-[2-(trifluoromethoxy)ethyl]-2H-indazol-5-carboxamide
79. 2-({1-[(4'-fluorobiphenyl-4-yl)carbonyl]piperidin-4-yl} methyl)-4-methyl-N-[2-(trifluoromethoxy)ethyl]-2H-indazol-5-carboxamide
- 15 80. 4-methyl-N-[2-(trifluoromethoxy)ethyl]-2-[(1-{4-[4-(trifluoromethyl)phenoxy]benzoyl}-piperidin-4-yl)methyl]-2H-indazol-5-carboxamide
81. N-(2-tert-butoxyethyl)-2-{{1-(4-chlorobenzoyl)piperidin-4-yl} methyl} -4-methyl-2H-indazol-5-carboxamide
82. N-(2-tert-butoxyethyl)-2-({1-[4-(4-fluorophenoxy)benzoyl]piperidin-4-yl} methyl)-4-methyl-2H-indazol-5-carboxamide
- 20 83. N-(2-tert-butoxyethyl)-2-({1-[(4'-fluorobiphenyl-4-yl)carbonyl]piperidin-4-yl} methyl)-4-methyl-2H-indazol-5-carboxamide
84. N-(2-tert-butoxyethyl)-4-methyl-2-[(1-{4-[4-(trifluoromethyl)phenoxy]benzoyl}-piperidin-4-yl)methyl]-2H-indazol-5-carboxamide
- 25 85. 2-{{1-(4-chlorobenzoyl)piperidin-4-yl} methyl} -4-methyl-N-{2-[(²H₃)methyloxy]-(²H₄)ethyl}-2H-indazol-5-carboxamide
86. 2-({1-[4-(4-fluorophenoxy)benzoyl]piperidin-4-yl} methyl)-4-methyl-N-{2-[(²H₃)methyloxy](²H₄)ethyl}-2H-indazol-5-carboxamide
87. 2-{{1-(4-chlorobenzoyl)azetidin-3-yl} methyl} -N-(2-methoxyethyl)-4-methyl-2H-indazol-5-carboxamide
- 30 88. N-(2-methoxyethyl)-4-methyl-2-[(1-{4-[(trifluoromethyl)sulphonyl]benzoyl}azetidin-3-yl)methyl]-2H-indazol-5-carboxamide
89. N-(2-methoxyethyl)-4-methyl-2-({1-[4-(trifluoromethoxy)benzoyl]azetidin-3-yl} methyl)-2H-indazol-5-carboxamide
- 35 90. 2-({1-[2-fluoro-4-(trifluoromethyl)benzoyl]azetidin-3-yl} methyl)-N-(2-methoxyethyl)-4-methyl-2H-indazol-5-carboxamide

91. 2-([1-(4-chloro-2-fluorobenzoyl)azetidin-3-yl]methyl)-N-(2-methoxyethyl)-4-methyl-2H-indazol-5-carboxamide
92. 2-([1-[3-fluoro-4-(trifluoromethyl)benzoyl]azetidin-3-yl]methyl)-N-(2-methoxyethyl)-4-methyl-2H-indazol-5-carboxamide
- 5 93. 2-([1-[4-chloro-3-(trifluoromethyl)benzoyl]azetidin-3-yl]methyl)-N-(2-methoxyethyl)-4-methyl-2H-indazol-5-carboxamide
94. 2-([1-(4-cyclopropylbenzoyl)azetidin-3-yl]methyl)-N-(2-methoxyethyl)-4-methyl-2H-indazol-5-carboxamide
95. N-(2-methoxyethyl)-4-methyl-2-([1-(4-[4-(trifluoromethyl)phenoxy]benzoyl)azetidin-3-yl]methyl)-2H-indazol-5-carboxamide
- 10 96. 2-([1-(4-chlorobenzoyl)azetidin-3-yl]methyl)-4-methyl-N-(2,2,2-trifluoroethyl)-2H-indazol-5-carboxamide
97. 4-methyl-N-(2,2,2-trifluoroethyl)-2-([1-[4-(trifluoromethoxy)benzoyl]azetidin-3-yl]methyl)-2H-indazol-5-carboxamide
- 15 98. 2-([1-[2-fluoro-4-(trifluoromethyl)benzoyl]azetidin-3-yl]methyl)-4-methyl-N-(2,2,2-trifluoroethyl)-2H-indazol-5-carboxamide
99. 4-methyl-2-([1-[4-(pentafluoro- λ^6 -sulphonyl)benzoyl]azetidin-3-yl]methyl)-N-(2,2,2-trifluoroethyl)-2H-indazol-5-carboxamide
100. N-[2-(cyclopropyloxy)ethyl]-4-methyl-2-([1-[4-(trifluoromethoxy)benzoyl]azetidin-3-yl]methyl)-2H-indazol-5-carboxamide
- 20 101. N-[2-(cyclobutyloxy)ethyl]-4-methyl-2-([1-[4-(trifluoromethoxy)benzoyl]azetidin-3-yl]methyl)-2H-indazol-5-carboxamide
102. 2-([1-(4-chlorobenzoyl)azetidin-3-yl]methyl)-N-[2-(cyclopropylmethoxy)ethyl]-4-methyl-2H-indazol-5-carboxamide
- 25 103. N-[2-(cyclopropylmethoxy)ethyl]-2-([1-[4-(4-fluorophenoxy)benzoyl]azetidin-3-yl]methyl)-4-methyl-2H-indazol-5-carboxamide
104. N-[2-(cyclopropylmethoxy)ethyl]-4-methyl-2-([1-(4-methylbenzoyl)azetidin-3-yl]methyl)-2H-indazol-5-carboxamide
105. 2-([1-(4-chlorobenzoyl)azetidin-3-yl]methyl)-4-methyl-N-[2-(trifluoromethoxy)ethyl]-2H-indazol-5-carboxamide
- 30 106. N-(2-tert-butoxyethyl)-2-([1-(4-chlorobenzoyl)azetidin-3-yl]methyl)-4-methyl-2H-indazol-5-carboxamide
107. N-[2-(cyclopropylmethoxy)ethyl]-2-([1-[(4'-fluorobiphenyl-4-yl)carbonyl]azetidin-3-yl]methyl)-4-methyl-2H-indazol-5-carboxamide
- 35 108. 2-([1-[(4'-fluorobiphenyl-4-yl)carbonyl]azetidin-3-yl]methyl)-N-(2-methoxyethyl)-4-methyl-2H-indazol-5-carboxamide

109. 2-({1-[4-(4-fluorophenoxy)benzoyl]azetidin-3-yl}methyl)-N-(2-methoxyethyl)-4-methyl-2H-indazol-5-carboxamide
110. 2-({1-[4-(4-fluorophenoxy)benzoyl]azetidin-3-yl}methyl)-4-methyl-N-(2,2,2-trifluoroethyl)-2H-indazol-5-carboxamide
- 5 111. 2-({1-[(4'-fluorobiphenyl-4-yl)carbonyl]azetidin-3-yl}methyl)-4-methyl-N-(2,2,2-trifluoroethyl)-2H-indazol-5-carboxamide
112. 2-{[1-(4-chlorobenzoyl)azetidin-3-yl]methyl}-4-methyl-N-[2-(2,2,2-trifluoroethoxy)-ethyl]-2H-indazol-5-carboxamide
113. 4-methyl-N-[2-(2,2,2-trifluoroethoxy)ethyl]-2-[(1-{4-[4-(trifluoromethyl)phenoxy]benzoyl}azetidin-3-yl)methyl]-2H-indazol-5-carboxamide
- 10 114. 4-methyl-N-(2,2,2-trifluoroethyl)-2-[(1-{4-[4-(trifluoromethyl)phenoxy]benzoyl}azetidin-3-yl)methyl]-2H-indazol-5-carboxamide
115. 2-({1-[4-(4-chlorophenoxy)benzoyl]azetidin-3-yl}methyl)-4-methyl-N-(2,2,2-trifluoroethyl)-2H-indazol-5-carboxamide
- 15 116. 2-({1-[4-(4-chlorophenoxy)benzoyl]azetidin-3-yl}methyl)-N-(2-methoxyethyl)-4-methyl-2H-indazol-5-carboxamide
117. N-(2-methoxyethyl)-4-methyl-2-{[1-(4-{[5-(trifluoromethyl)pyridin-2-yl]oxy}benzoyl)azetidin-3-yl]methyl}-2H-indazol-5-carboxamide
118. 4-methyl-N-(2,2,2-trifluoroethyl)-2-{[1-(4-{[5-(trifluoromethyl)pyridin-2-yl]oxy}benzoyl)azetidin-3-yl]methyl}-2H-indazol-5-carboxamide
- 20 119. 2-{[1-(4-chlorobenzoyl)piperidin-4-yl]methyl}-N-ethyl-4-methyl-2H-indazol-5-carboxamide
120. 2-({1-[4-(4-fluorophenoxy)benzoyl]piperidin-4-yl}methyl)-4-methyl-N-(2,2,2-trifluoroethyl)-2H-indazol-5-carboxamide
- 25 121. 2-({1-[4-(4-chlorophenoxy)benzoyl]piperidin-4-yl}methyl)-4-methyl-N-(2,2,2-trifluoroethyl)-2H-indazol-5-carboxamide
122. 4-methyl-2-({1-[4-(4-methylphenoxy)benzoyl]piperidin-4-yl}methyl)-N-(2,2,2-trifluoroethyl)-2H-indazol-5-carboxamide
123. 2-({1-[(4'-fluorobiphenyl-4-yl)carbonyl]piperidin-4-yl}methyl)-4-methyl-N-(2,2,2-trifluoroethyl)-2H-indazol-5-carboxamide
- 30 124. 4-methyl-2-{[1-(4-morpholinobenzoyl)piperidin-4-yl]methyl}-N-(2,2,2-trifluoroethyl)-2H-indazol-5-carboxamide
125. 4-methyl-N-(2,2,2-trifluoroethyl)-2-[(1-{4-[(trifluoromethyl)sulphonyl]benzoyl}piperidin-4-yl)methyl]-2H-indazol-5-carboxamide
- 35 126. 4-methyl-N-(2,2,2-trifluoroethyl)-2-[(1-{4-[4-(trifluoromethyl)phenoxy]benzoyl}piperidin-4-yl)methyl]-2H-indazol-5-carboxamide

127. 4-methyl-N-(2,2,2-trifluoroethyl)-2- {[1-(4- {[5-(trifluoromethyl)pyridin-2-yl]oxy}-benzoyl)piperidin-4-yl]methyl}-2H-indazol-5-carboxamide
128. 4-methyl-N-(2,2,2-trifluoroethyl)-2- {[1-(4- {[6-(trifluoromethyl)pyridin-3-yl]oxy}-benzoyl)piperidin-4-yl]methyl}-2H-indazol-5-carboxamide
- 5 129. 4-methyl-N-(2,2,2-trifluoroethyl)-2- {[1-(4- {[6-(trifluoromethyl)pyridin-2-yl]oxy}-benzoyl)piperidin-4-yl]methyl}-2H-indazol-5-carboxamide
130. 2-({1-[4-(4-cyanophenoxy)benzoyl]piperidin-4-yl} methyl)-4-methyl-N-(2,2,2-trifluoroethyl)-2H-indazol-5-carboxamide
131. 2-({1-[4-(3-fluorophenoxy)benzoyl]piperidin-4-yl} methyl)-4-methyl-N-(2,2,2-trifluoroethyl)-2H-indazol-5-carboxamide
- 10 132. 4-methyl-N-(2,2,2-trifluoroethyl)-2-[(1-{4-[3-(trifluoromethyl)phenoxy]benzoyl}-piperidin-4-yl)methyl]-2H-indazol-5-carboxamide
133. 2-[(1-{4-[(5-cyanopyridin-2-yl)oxy]benzoyl}piperidin-4-yl)methyl]-4-methyl-N-(2,2,2-trifluoroethyl)-2H-indazol-5-carboxamide
- 15 134. 2-[(1-{4-[(5-chloropyridin-2-yl)oxy]benzoyl}piperidin-4-yl)methyl]-4-methyl-N-(2,2,2-trifluoroethyl)-2H-indazol-5-carboxamide
135. 4-methyl-N-(2,2,2-trifluoroethyl)-2-[(1-{4-[5-(trifluoromethyl)pyridin-2-yl]benzoyl}-piperidin-4-yl)methyl]-2H-indazol-5-carboxamide
136. 2-({1-[4-(2,4-difluorophenoxy)benzoyl]piperidin-4-yl} methyl)-4-methyl-N-(2,2,2-trifluoroethyl)-2H-indazol-5-carboxamide
- 20 137. 2-({1-[4-(3,4-difluorophenoxy)benzoyl]piperidin-4-yl} methyl)-4-methyl-N-(2,2,2-trifluoroethyl)-2H-indazol-5-carboxamide
138. 4-methyl-N-(2,2,2-trifluoroethyl)-2-[(1-{4'-(trifluoromethyl)biphenyl-4-yl}carbonyl)-piperidin-4-yl)methyl]-2H-indazol-5-carboxamide
- 25 139. 2- {[1-(4-bromobenzoyl)piperidin-4-yl]methyl}-4-methyl-N-(2,2,2-trifluoroethyl)-2H-indazol-5-carboxamide
140. 2-({1-[4-(5-chloropyridin-2-yl)benzoyl]piperidin-4-yl} methyl)-4-methyl-N-(2,2,2-trifluoroethyl)-2H-indazol-5-carboxamide
141. 2-({1-[(4'-methoxy-2'-methylbiphenyl-4-yl)carbonyl]piperidin-4-yl} methyl)-4-methyl-N-(2,2,2-trifluoroethyl)-2H-indazol-5-carboxamide
- 30 142. 4-methyl-2-({1-[4-(6-methylpyridin-3-yl)benzoyl]piperidin-4-yl} methyl)-N-(2,2,2-trifluoroethyl)-2H-indazol-5-carboxamide
143. 2-({1-[(4'-fluoro-2'-methoxybiphenyl-4-yl)carbonyl]piperidin-4-yl} methyl)-4-methyl-N-(2,2,2-trifluoroethyl)-2H-indazol-5-carboxamide
- 35 144. 4-methyl-N-(2,2,2-trifluoroethyl)-2-[(1-{4-[6-(trifluoromethyl)pyridin-3-yl]benzoyl}-piperidin-4-yl)methyl]-2H-indazol-5-carboxamide

145. 2-({1-[4-(6-methoxypyridin-3-yl)benzoyl]piperidin-4-yl} methyl)-4-methyl-N-(2,2,2-trifluoroethyl)-2H-indazol-5-carboxamide
146. 2-({1-[4-(6-methoxypyridin-2-yl)benzoyl]piperidin-4-yl} methyl)-4-methyl-N-(2,2,2-trifluoroethyl)-2H-indazol-5-carboxamide
- 5 147. 4-methyl-2-({1-[4-(5-methylpyridin-2-yl)benzoyl]piperidin-4-yl} methyl)-N-(2,2,2-trifluoroethyl)-2H-indazol-5-carboxamide
148. 2-({1-[4-(5-fluoropyridin-2-yl)benzoyl]piperidin-4-yl} methyl)-4-methyl-N-(2,2,2-trifluoroethyl)-2H-indazol-5-carboxamide
149. 2-({1-[4-(5-methoxypyridin-2-yl)benzoyl]piperidin-4-yl} methyl)-4-methyl-N-(2,2,2-trifluoroethyl)-2H-indazol-5-carboxamide
- 10 150. 4-methyl-2-({1-[4-(2-methylpyrimidin-5-yl)benzoyl]piperidin-4-yl} methyl)-N-(2,2,2-trifluoroethyl)-2H-indazol-5-carboxamide
151. 4-methyl-N-(2,2,2-trifluoroethyl)-2-[(1-{4-[2-(trifluoromethyl)pyrimidin-5-yl]benzoyl}-piperidin-4-yl)methyl]-2H-indazol-5-carboxamide
- 15 152. 4-methyl-N-(2,2,2-trifluoroethyl)-2-[(1-{4-[6-(trifluoromethyl)pyridin-2-yl]benzoyl}-piperidin-4-yl)methyl]-2H-indazol-5-carboxamide
153. 2-({1-[4-(4-cyanophenoxy)benzoyl]piperidin-4-yl} methyl)-N-(2-methoxyethyl)-4-methyl-2H-indazol-5-carboxamide
154. 2-{[1-(4-bromo-3-methylbenzoyl)piperidin-4-yl]methyl}-N-(2-methoxyethyl)-4-methyl-2H-indazol-5-carboxamide
- 20 155. 2-{[1-(4-tert-butylbenzoyl)piperidin-4-yl]methyl}-N-(2-methoxyethyl)-4-methyl-2H-indazol-5-carboxamide
156. 2-({1-[4-(1-hydroxy-1-methylethyl)benzoyl]piperidin-4-yl} methyl)-N-(2-methoxyethyl)-4-methyl-2H-indazol-5-carboxamide
- 25 157. 2-{[1-(4-cyclohexylbenzoyl)piperidin-4-yl]methyl}-N-(2-methoxyethyl)-4-methyl-2H-indazol-5-carboxamide
158. 2-({1-[4-(1-cyano-1-methylethyl)benzoyl]piperidin-4-yl} methyl)-N-(2-methoxyethyl)-4-methyl-2H-indazol-5-carboxamide
159. N-(2-methoxyethyl)-4-methyl-2-({1-[4-(pyrimidin-2-yloxy)benzoyl]piperidin-4-yl} methyl)-2H-indazol-5-carboxamide
- 30 160. N-(2-methoxyethyl)-4-methyl-2-({1-[4-(3-pyridyloxy)benzoyl]piperidin-4-yl} methyl)-2H-indazol-5-carboxamide
161. N-(2-methoxyethyl)-4-methyl-2-{[1-(4-{[5-(trifluoromethyl)pyridin-2-yl]oxy}benzoyl)-piperidin-4-yl]methyl}-2H-indazol-5-carboxamide
- 35 162. N-(2-methoxyethyl)-4-methyl-2-({1-[4-(2-pyridyloxy)benzoyl]piperidin-4-yl} methyl)-2H-indazol-5-carboxamide

163. N-(2-methoxyethyl)-4-methyl-2- {[1-(4- {[4-(trifluoromethyl)pyrimidin-2-yl]oxy} - benzoyl)piperidin-4-yl]methyl} -2H-indazol-5-carboxamide
164. N-(2-methoxyethyl)-4-methyl-2- {[1-(4- {[6-(trifluoromethyl)pyridin-3-yl]oxy} benzoyl)- piperidin-4-yl]methyl} -2H-indazol-5-carboxamide
- 5 165. N-(2-methoxyethyl)-4-methyl-2- {[1-(4- {[6-(trifluoromethyl)pyridin-2-yl]oxy} benzoyl)- piperidin-4-yl]methyl} -2H-indazol-5-carboxamide
166. 2-({1-[(4'-methoxybiphenyl-4-yl)carbonyl]piperidin-4-yl} methyl)-N-(2-methoxyethyl)- 4-methyl-2H-indazol-5-carboxamide
167. N-(2-methoxyethyl)-4-methyl-2-({1-[4-(3,4,5,6-tetrahydro-2H-pyran-4-yloxy)benzoyl]- 10 piperidin-4-yl} methyl)-2H-indazol-5-carboxamide
168. N-(2-methoxyethyl)-4-methyl-2-[(1- {4-[3-(trifluoromethyl)phenoxy]benzoyl} piperidin- 4-yl)methyl]-2H-indazol-5-carboxamide
169. 2-[(1- {4-[(5-cyanopyridin-2-yl)oxy]benzoyl} piperidin-4-yl)methyl]-N-(2-methoxy- ethyl)-4-methyl-2H-indazol-5-carboxamide
- 15 170. 2-[(1- {4-[(5-chloropyridin-2-yl)oxy]benzoyl} piperidin-4-yl)methyl]-N-(2-methoxy- ethyl)-4-methyl-2H-indazol-5-carboxamide
171. 2-({1-[4-(2,4-difluorophenoxy)benzoyl]piperidin-4-yl} methyl)-N-(2-methoxyethyl)-4- methyl-2H-indazol-5-carboxamide
172. 2-({1-[4-(3,4-difluorophenoxy)benzoyl]piperidin-4-yl} methyl)-N-(2-methoxyethyl)-4- 20 methyl-2H-indazol-5-carboxamide
173. N-(2-methoxyethyl)-4-methyl-2-[(1- {4'-(trifluoromethyl)biphenyl-4-yl]carbonyl} - piperidin-4-yl)methyl]-2H-indazol-5-carboxamide
174. 2-({1-[4-(3-fluorophenoxy)benzoyl]piperidin-4-yl} methyl)-N-(2-methoxyethyl)-4- methyl-2H-indazol-5-carboxamide
- 25 175. 2- {[1-(2-fluoro-4-isopropoxybenzoyl)piperidin-4-yl]methyl} -N-(2-methoxyethyl)-4- methyl-2H-indazol-5-carboxamide
176. 2-({1-[(3-fluoro-3',4'-dimethylbiphenyl-4-yl)carbonyl]piperidin-4-yl} methyl)-N-(2- methoxyethyl)-4-methyl-2H-indazol-5-carboxamide
177. 2-({1-[(2',3-difluoro-4'-methoxybiphenyl-4-yl)carbonyl]piperidin-4-yl} methyl)-N-(2- 30 methoxyethyl)-4-methyl-2H-indazol-5-carboxamide
178. 2-({1-[4-(difluoromethoxy)benzoyl]piperidin-4-yl} methyl)-N-(2-methoxyethyl)-4- methyl-2H-indazol-5-carboxamide
179. 2-({1-[4-(2-fluorophenoxy)benzoyl]piperidin-4-yl} methyl)-N-(2-methoxyethyl)-4- methyl-2H-indazol-5-carboxamide
- 35 180. 2-({1-[(4'-cyano-2'-methylbiphenyl-4-yl)carbonyl]piperidin-4-yl} methyl)-N-(2- methoxyethyl)-4-methyl-2H-indazol-5-carboxamide

181. 2-({1-[4-(5-chloropyridin-2-yl)benzoyl]piperidin-4-yl} methyl)-N-(2-methoxyethyl)-4-methyl-2H-indazol-5-carboxamide
182. N-(2-methoxyethyl)-4-methyl-2-[(1-{4-[6-(trifluoromethyl)pyridin-2-yl]benzoyl}-piperidin-4-yl)methyl]-2H-indazol-5-carboxamide
- 5 183. N-(2-methoxyethyl)-2-({1-[(4'-methoxy-2'-methylbiphenyl-4-yl)carbonyl]piperidin-4-yl} methyl)-4-methyl-2H-indazol-5-carboxamide
184. 2-({1-[(4'-chloro-2'-methylbiphenyl-4-yl)carbonyl]piperidin-4-yl} methyl)-N-(2-methoxyethyl)-4-methyl-2H-indazol-5-carboxamide
185. 2-[(1-{4'-(1-cyano-1-methylethyl)biphenyl-4-yl}carbonyl)piperidin-4-yl)methyl]-N-(2-methoxyethyl)-4-methyl-2H-indazol-5-carboxamide
- 10 186. N-(2-methoxyethyl)-2-({1-[4-(5-methoxypyridin-2-yl)benzoyl]piperidin-4-yl} methyl)-4-methyl-2H-indazol-5-carboxamide
187. N-(2-methoxyethyl)-4-methyl-2-[(1-{4-[6-(trifluoromethyl)pyridin-3-yl]benzoyl}-piperidin-4-yl)methyl]-2H-indazol-5-carboxamide
- 15 188. N-(2-methoxyethyl)-2-({1-[4-(6-methoxypyridin-3-yl)benzoyl]piperidin-4-yl} methyl)-4-methyl-2H-indazol-5-carboxamide
189. 2-({1-[(4'-fluoro-2'-methylbiphenyl-4-yl)carbonyl]piperidin-4-yl} methyl)-N-(2-methoxyethyl)-4-methyl-2H-indazol-5-carboxamide
190. N-(2-methoxyethyl)-4-methyl-2-({1-[4-(6-methylpyridin-3-yl)benzoyl]piperidin-4-yl}-methyl)-2H-indazol-5-carboxamide
- 20 191. N-(2-methoxyethyl)-2-({1-[4-(6-methoxypyridin-2-yl)benzoyl]piperidin-4-yl} methyl)-4-methyl-2H-indazol-5-carboxamide
192. N-(2-methoxyethyl)-4-methyl-2-({1-[4-(2-methylpyrimidin-5-yl)benzoyl]piperidin-4-yl} methyl)-2H-indazol-5-carboxamide
- 25 193. 2-({1-[(4'-fluoro-2'-methoxybiphenyl-4-yl)carbonyl]piperidin-4-yl} methyl)-N-(2-methoxyethyl)-4-methyl-2H-indazol-5-carboxamide
194. 2-({1-[(4'-chloro-2'-methoxybiphenyl-4-yl)carbonyl]piperidin-4-yl} methyl)-N-(2-methoxyethyl)-4-methyl-2H-indazol-5-carboxamide
195. N-(2-methoxyethyl)-4-methyl-2-[(1-{4-[2-(trifluoromethyl)pyrimidin-5-yl]benzoyl}-piperidin-4-yl)methyl]-2H-indazol-5-carboxamide
- 30 196. 2-({1-[(4'-chloro-2'-fluorobiphenyl-4-yl)carbonyl]piperidin-4-yl} methyl)-N-(2-methoxyethyl)-4-methyl-2H-indazol-5-carboxamide
197. 2-({1-[(2'-chloro-4'-fluorobiphenyl-4-yl)carbonyl]piperidin-4-yl} methyl)-N-(2-methoxyethyl)-4-methyl-2H-indazol-5-carboxamide
- 35 198. 2-({1-[4-(5-chloropyridin-3-yl)benzoyl]piperidin-4-yl} methyl)-N-(2-methoxyethyl)-4-methyl-2H-indazol-5-carboxamide

199. 2-({1-[4-(5-fluoropyridin-3-yl)benzoyl]piperidin-4-yl} methyl)-N-(2-methoxyethyl)-4-methyl-2H-indazol-5-carboxamide
200. N-(2-methoxyethyl)-4-methyl-2-({1-[4-[5-(trifluoromethyl)pyridin-3-yl]benzoyl}-piperidin-4-yl)methyl]-2H-indazol-5-carboxamide
- 5 201. 2-[(1-{4'-(1-hydroxy-1-methylethyl)biphenyl-4-yl}carbonyl)piperidin-4-yl)methyl]-N-(2-methoxyethyl)-4-methyl-2H-indazol-5-carboxamide
202. 2-({1-[3',5'-difluorobiphenyl-4-yl]carbonyl}piperidin-4-yl)methyl)-N-(2-methoxyethyl)-4-methyl-2H-indazol-5-carboxamide
203. 2-({1-[4'-fluoro-2-methylbiphenyl-4-yl]carbonyl}piperidin-4-yl)methyl)-N-(2-methoxyethyl)-4-methyl-2H-indazol-5-carboxamide
- 10 204. 2-({1-[3',5'-difluoro-2-methylbiphenyl-4-yl]carbonyl}piperidin-4-yl)methyl)-N-(2-methoxyethyl)-4-methyl-2H-indazol-5-carboxamide
205. N-(2-methoxyethyl)-4-methyl-2-({1-[3-methyl-4-(3-pyridyl)benzoyl]piperidin-4-yl}-methyl)-2H-indazol-5-carboxamide
- 15 206. N-(2-methoxyethyl)-4-methyl-2-({1-[3-methyl-4-(4-pyridyl)benzoyl]piperidin-4-yl}-methyl)-2H-indazol-5-carboxamide and
207. N-(2-methoxyethyl)-4-methyl-2-({1-[2-methylbiphenyl-4-yl]carbonyl}piperidin-4-yl)-methyl)-2H-indazol-5-carboxamide
- 20
7. Use of the compounds according to formula I for the production of a drug containing suitable formulation and carrier substances.
8. Use of the drugs according to Claim 7, characterized in that the drug is used for the prophylaxis and treatment of diseases.
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9. Use of the compounds according to Claim 1 - 6 and the drugs according to Claim 7 for fertility control/contraception.
- 30 10. Use of the drugs according to Claim 7, for the prophylaxis and direct treatment of diseases which are causally linked with the EP₂ receptor, or of diseases which can be treated by influencing the EP₂ receptor.
11. Use of the drugs according to Claim 7 for the prophylaxis and treatment of endometriosis.
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12. Use of the drugs according to Claim 7 for the prophylaxis and treatment of menstrual complaints, where the menstrual problems can be severe and persistent bleeding, irregular bleeding and pains.
- 5 13. Use of the drugs according to Claim 7 for the prophylaxis and treatment of fibroids (myomas).
14. Use of the drugs according to Claim 7 for the prophylaxis and treatment of cancer, where the cancer diseases can be lung, intestinal, breast, skin, prostate or oesophageal
10 cancer and leukaemia.
15. Use of the drugs according to Claim 7 for the prophylaxis and treatment of arteriosclerosis.
- 15 16. Use of the drugs according to Claim 7 for the prophylaxis and treatment of neurodegenerative, neuroinflammatory and ischaemic diseases, where the diseases can be Alzheimer's disease, Parkinson's disease, ALS, stroke and multiple sclerosis.
17. Use of the drugs according to Claim 7 for the prophylaxis and treatment of polycystic
20 kidney diseases.
18. Use of the drugs according to Claim 7 for the prophylaxis and treatment of pain, where the pain can be inflammatory hyperalgesia.
- 25 19. Use of the drugs according to Claim 7 for the prophylaxis and treatment of infectious diseases of the lung.
20. Use of the drugs according to Claim 7 for the prophylaxis and treatment of chronic obstructive pulmonary diseases.
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21. Use of the drugs according to Claim 7 for the prophylaxis and treatment of intestinal inflammatory diseases, where the intestinal inflammatory diseases can be Crohn's disease and ulcerative colitis.
- 35 22. Use of the drugs according to Claim 7 for the prophylaxis and treatment in bone marrow transplantation operations.

23. Use of the drugs according to Claim 7 for the prophylaxis and treatment of pathological eye diseases, where the pathological eye diseases can be Graves' disease.
- 5 24. Use of the drugs according to Claim 7 for the prophylaxis and treatment of aneurysms.
25. Use of the drugs according to Claim 7 for the prophylaxis and treatment of vascular damage and the Kawasaki syndrome.
- 10 26. Use of the drugs according to Claim 7 for the prophylaxis and treatment of arthritis.
27. Drug containing a compound of the general formula (I) in combination with a COX inhibitor for the treatment of diseases, wherein the COX inhibitors can be selected from the following list: aspirin, naproxen, indomethacin, meloxicam, ibuprofen, ketoprofen, 15 piroxicam, tenoxicam, nimesulide, mefenamic acid, ketorolac, celecoxib (4-[5-(4-methylphenyl)-3-(trifluoromethyl)-1H-pyrazol-1-yl]benzenesulphonamide), parecoxib (N-[4-(5-methyl-3-phenyl-4-isoxazolyl)phenyl]sulphonylpropionamide), rofecoxib (4-(4-mesylphenyl)-3-phenylfuran-(5H)-one), valdecoxib (4-[5-methyl-3-phenyl-4-isoxazolyl]benzenesulphonamide), NS-398 (N-methyl-2-cyclohexanoxo-4-nitrobenzene-sulphonamide), 20 lumiracoxib [2-(2'-chloro-6'-fluorophenyl)-amino-5-methylbenzene-acetic acid], ceracoxib and etoricoxib.
28. Drug according to Claim 27, where the diseases are infectious diseases, cancer, cardiovascular diseases, angiogenic diseases, uterine contraction disorders, pain, 25 inflammatory diseases, neuroinflammatory diseases, neurodegenerative diseases, autoimmune diseases, immunodependent diseases/therapies, nephrological diseases and ophthalmological diseases and where the drugs can also be used for the treatment of pain and in transplantation and for fertility control.
- 30 29. Use of the compounds of the general formula I, according to Claims 1 - 6, in the form of a pharmaceutical preparation for enteral, parenteral, vaginal, intrauterine and oral administration.
30. Method for the preparation of the compounds of the general formula (I), characterized in 35 that a compound of the general formula (VIII) is reacted with an amine of the general formula (XI), where R^1 , R^2 , R^3 , R^4 , X, Ar, m and n have the meaning stated in Claim 1.

31. Method for the preparation of the compounds of the general formula (I), characterized in that a compound of the general formula (VI) is reacted with an amine of the general formula (XI), where R^1 , R^2 , R^3 , R^4 , X, Ar, m and n have the meaning stated in Claim 1, and carbon monoxide or a carbon monoxide source such as for example molybdenum hexacarbonyl, under palladium(0) catalysis.
32. Method for the preparation of the compounds of the general formula (I), characterized in that a compound of the general formula (XV) is reacted with a carboxylic acid ($Y = OH$), a carboxylic acid chloride ($Y = Cl$) or anhydride ($Y = O-C(O)-O-CH_2(CH_3)CH_3$) of the general formula (IX), where R^1 , R^2 , R^3 , R^4 , X, Ar, m, n have the meaning stated in Claim 1.
33. Method for the preparation of the compounds of the general formula (I), characterized in that a compound of the general formula (XVI), wherein LG' for example means Br or I, is reacted with a boronic acid or a boronic acid ester of the general formula (XVIII), where R^1 , R^2 , R^3 , R^4 , X, Ar, m and n have the meaning stated in Claim 1.