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71	FULL NAME(S) OF APPLICANT(S)
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Aventis Pharma S.A.

72	FULL NAME(S) OF INVENTOR(S)
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LESUISSE, Dominique
HALLEY, Franck
ROONEY, Thomas

DUTRUC-ROSSET, Gilles
BABIN, Didier
TIRABOSCHI, Gilles

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54	TITLE OF INVENTION
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Aminoindazole derivatives and use thereof as kinase inhibitors

57	ABSTRACT (NOT MORE THAN 150 WORDS)
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NUMBER OF SHEETS	60
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The sheet(s) containing the abstract is/are attached.

If no classification is furnished, Form P.9 should accompany this form.
The figure of the drawing to which the abstract refers is attached.

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(74) Mandataire : MOREL-PECHEUX, Muriel; AVENTIS PHARMA S.A., Direction Brevets, 20 Avenue Raymond Aron, F-92165 ANTONY CEDEX (FR).

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(71) Déposant : AVENTIS PHARMA S.A. [FR/FR]; 20 Avenue Raymond Aron, F-92160 ANTONY (FR).

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(72) Inventeurs: LESUISSE, Dominique; 11 rue des Fédérés, F-93100 MONTREUIL (FR). DUTRUZ-ROSSET, Gilles; 21 Avenue du Docteur Arnold Netter, F-75012 PARIS (FR). HALLEY, Franck; 26 rue de la Borne du Diable, F-92310 SEVRES (FR). BABIN, Didier; 22 rue de la Grenouillette, F-78180 MONTIGNY (FR). ROONEY, Thomas; 2 Place du Champ des Cordes, F-91400 ORSAY (FR). TIRABOSCHI, Gilles; 31 rue Albert Thuret, F-94550 CHEVILLY LARUE (FR).

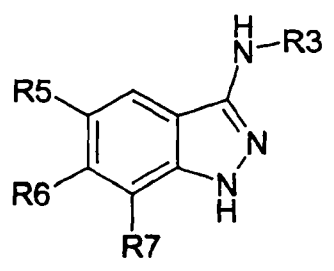
En ce qui concerne les codes à deux lettres et autres abréviations, se référer aux "Notes explicatives relatives aux codes et abréviations" figurant au début de chaque numéro ordinaire de la Gazette du PCT.



WO 2004/062662 A1

(54) Title: AMINOINDAZOLE DERIVATIVES AND USE THEREOF AS KINASE INHIBITORS

(54) Titre : DERIVES D'AMINOINDAZOLES ET LEUR UTILISATION COMME INHIBITEURS DE KINASES



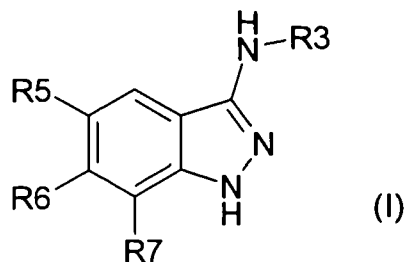
(I)

(57) Abstract: The invention relates to novel aminoindazole derivatives having general formula (I) and to the use thereof for the treatment of diseases that can result from abnormal kinase activity.

(57) Abrégé : La présente invention concerne les nouveaux dérivés de formule générale (I) et leur utilisation pour traiter les maladies pouvant résulter d'une activité anormale de kinases.

AMINOINDAZOLE DERIVATIVES AND USE THEREOF AS KINASE INHIBITORS

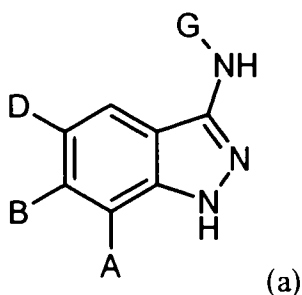
The present invention relates to the use of derivatives of formula (I):

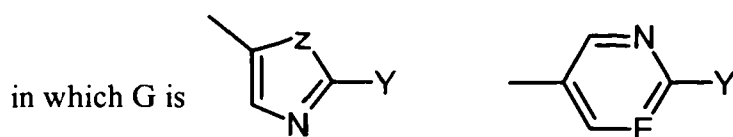


5 or their pharmaceutically acceptable salts as kinase inhibitor.

The subject matter of the invention is the use of the aminoindazole derivatives of formula (I) and their pharmaceutically acceptable salts in the preparation of pharmaceutical compositions intended to prevent and treat diseases which can result from an abnormal activity of kinases, such as, for example, those involved in neurodegenerative diseases, Alzheimer's disease, Parkinson's disease, frontoparietal dementia, corticobasal degeneration, Pick's disease, strokes, cranial and spinal traumas and peripheral neuropathies, obesity, metabolic diseases, type II diabetes, essential hypertension, atherosclerotic cardiovascular diseases, polycystic ovaries syndrome, syndrome X, immunodeficiency and cancer, the pharmaceutical compositions comprising the novel aminoindazole derivatives and their pharmaceutically acceptable salts and the novel aminoindazole derivatives and their pharmaceutically acceptable salts.

15 Patent application WO 02/074388 describes aminoindazole derivatives of type (a) that are potassium-channel activators





Z is NX₀, S or O

E is N or CX₁

Y is halogen, X₂ or OX₂

5 X₀, X₁ and X₂ are halogen, alkyl or a substituted alkyl

A, B and D are hydrogen, halogen, substituted or unsubstituted alkyl, C(O)_pR₁₃, C(O)NR₁₃R₁₄, SO₂NR₁₃, R₁₄, S(O)_pR₁₅, OR₁₅ or NR₁₃R₁₄

p is an integer from 0 to 2

10 R₁₃ and R₁₄ are hydrogen, substituted or unsubstituted alkyl, substituted or unsubstituted cycloalkyl, substituted or unsubstituted heteroaryl, substituted or unsubstituted heterocycle, substituted or unsubstituted heteroalkyl, substituted or unsubstituted heteroaryl-heteroalkyl, or substituted or unsubstituted aryl-heteroalkyl

15 R₁₅ is substituted or unsubstituted alkyl, substituted or unsubstituted cycloalkyl, substituted or unsubstituted heteroaryl, substituted or unsubstituted heterocycle, substituted or unsubstituted heteroalkyl, substituted or unsubstituted heteroaryl-heteroalkyl, or substituted or unsubstituted aryl-heteroalkyl.

The present invention relates to derivatives of formula (I) in which:

20 R₃ is a (1-6C)alkyl, aryl, aryl(1-6C)alkyl, heteroaryl, heteroaryl(1-6C)alkyl, aryl or heteroaryl fused to a (1-10C) cycloalkyl, heterocycle, heterocycloalkyl, cycloalkyl, adamantyl, polycycloalkyl, alkenyl, alkynyl, CONR₁R₂, CSNR₁R₂, COOR₁, SO₂R₁, C(=NH)R₁ or C(=NH)NR₁ radical; these radicals optionally being substituted by 1 or more substituents chosen from halogen, CN, NO₂, NH₂, OH, OR₁, COOH, C(O)OR₁, -O-C(O)R₁, NR₁R₂, NHC(O)R₁, C(O)NR₁R₂, SR₁, S(O)R₁, SO₂R₁, NHSO₂R₁, SO₂NR₁R₂, C(S)NR₁R₂, NHC(S)R₁, -O-SO₂R₁, -SO₂-O-R₁,
25 aryl, heteroaryl, heterocycle, formyl, trifluoromethyl, trifluoromethylsulfanyl, trifluoromethoxy or (1-6C)alkyl;

R5, R6 and R7 are, independently of one another, chosen from the following radicals halogen, CN, NO₂, NH₂, OH, COOH, C(O)OR₈, -O-C(O)R₈, NR₈R₉, NHC(O)R₈, C(O)NR₈R₉, NHC(S)R₈, C(S)NR₈R₉, SR₈, S(O)R₈, SO₂R₈, NHSO₂R₈, SO₂NR₈R₉, -O-SO₂R₈, -SO₂-O-R₈, trifluoromethyl, trifluoromethoxy, (1-6C)alkyl, (1-6C)alkoxy, aryl, aryl(1-6C)alkyl, heteroaryl, heteroaryl(1-6C)alkyl, heterocycle, cycloalkyl, alkenyl, alkynyl, adamantyl or polycycloalkyl; these radicals optionally being substituted by 1 or more substituents chosen from halogen, CN, NO₂, NH₂, OH, OR₁₀, COOH, C(O)OR₁₀, -O-C(O)R₁₀, NR₁₀R₁₁, NHC(O)R₁₀, C(O)NR₁₀R₁₁, NHC(S)R₁₀, C(S)NR₁₀R₁₁, SR₁₀, S(O)R₁₀, SO₂R₁₀, NHSO₂R₁₀, SO₂NR₁₀R₁₁, -O-SO₂R₁₀, -SO₂-O-R₁₀, aryl, heteroaryl, formyl, trifluoromethyl, trifluoromethoxy or (1-6C)alkyl;

R1, R2, R8, R9, R10 and R11 are, independently of one another, a hydrogen, (1-6C)alkyl, aryl, alkenyl, alkynyl, heteroaryl, themselves optionally being substituted by 1 or more substituents chosen from halogen, (1-6C)alkyl, (1-6C)alkoxy, CN, NO₂, NH₂, OH, COOH, COOalkyl, CONH₂, formyl, trifluoromethyl, trifluoromethoxy;

R1 and R2 or R8 and R9 or R10 and R11 can form a 5- or 6-membered ring which may or may not have a heteroatom, such as O, S or N;

and, when R3 is a 6-membered nitrogenous heteroaryl or a thiazolyl or an imidazolyl or an oxazolyl, then at least one of the R5 and R6 groups is an aryl which is optionally substituted by 1 or more substituents chosen from halogen, CN, NO₂, NH₂, OH, OR₁₀, COOH, C(O)OR₁₀, -O-C(O)R₁₀, NR₁₀R₁₁, NHC(O)R₁₀, C(O)NR₁₀R₁₁, NHC(S)R₁₀, C(S)NR₁₀R₁₁, SR₁₀, S(O)R₁₀, SO₂R₁₀, NHSO₂R₁₀, SO₂NR₁₀R₁₁, -O-SO₂R₁₀, -SO₂-O-R₁₀, aryl, heteroaryl, formyl, trifluoromethyl, trifluoromethoxy or (1-6C)alkyl;

to their racemates, enantiomers or diastereoisomers and their mixtures, to their tautomers and to their pharmaceutically acceptable salts.

More particularly, the present invention relates to derivatives of formula (I) in which:

R3 is a (1-6C)alkyl, aryl, aryl(1-6C)alkyl, heteroaryl, heteroaryl(1-6C)alkyl, aryl or heteroaryl fused to a (1-10C) cycloalkyl, heterocycle, heterocycloalkyl, cycloalkyl,

adamantyl, polycycloalkyl, alkenyl, alkynyl, CONR₁R₂, CSNR₁R₂, COOR₁, SO₂R₁, C(=NH)R₁ or C(=NH)NR₁ radical; these radicals optionally being substituted by 1 or more substituents chosen from halogen, CN, NO₂, NH₂, OH, OR₁, COOH, C(O)OR₁, -O-C(O)R₁, NR₁R₂, NHC(O)R₁, C(O)NR₁R₂, SR₁, S(O)R₁,
 5 SO₂R₁, NHSO₂R₁, SO₂NR₁R₂, C(S)NR₁R₂, NHC(S)R₁, -O-SO₂R₁, -SO₂-O-R₁, aryl, heteroaryl, heterocycle, formyl, trifluoromethyl, trifluoromethylsulfanyl, trifluoromethoxy or (1-6C)alkyl;

R₅ and R₆ are chosen, independently of one another, from the following radicals: halogen, CN, NO₂, NH₂, OH, COOH, C(O)OR₈, -O-C(O)R₈, NR₈R₉, NHC(O)R₈,
 10 C(O)NR₈R₉, NHC(S)R₈, C(S)NR₈R₉, SR₈, S(O)R₈, SO₂R₈, NHSO₂R₈, SO₂NR₈R₉, -O-SO₂R₈, -SO₂-O-R₈, trifluoromethyl, trifluoromethoxy, (1-6C)alkyl, (1-6C)alkoxy, aryl, aryl(1-6C)alkyl, heteroaryl, heteroaryl(1-6C)alkyl, heterocycle, cycloalkyl, alkenyl, alkynyl, adamantyl, polycycloalkyls; these radicals optionally being substituted by 1 or more substituents chosen from halogen, CN, NO₂, NH₂, OH,
 15 OR₁₀, COOH, C(O)OR₁₀, -O-C(O)R₁₀, NR₁₀R₁₁, NHC(O)R₁₀, C(O)NR₁₀R₁₁, NHC(S)R₁₀, C(S)NR₁₀R₁₁, SR₁₀, S(O)R₁₀, SO₂R₁₀, NHSO₂R₁₀, SO₂NR₁₀R₁₁, -O-SO₂R₁₀, -SO₂-O-R₁₀, aryl, heteroaryl, formyl, trifluoromethyl, trifluoromethoxy or (1-6C)alkyl;

R₇ is a halogen, methyl, cyclopropyl, CN, OH, methoxy, trifluoromethyl, ethylenyl,
 20 acetylenyl, trifluoromethoxy, NO₂, NH₂ or NMe₂

R₁, R₂, R₈, R₉, R₁₀ and R₁₁ are, independently of one another, a hydrogen, (1-6C)alkyl, aryl, alkenyl, alkynyl or heteroaryl, themselves optionally being substituted by 1 or more substituents chosen from halogen, (1-6C)alkyl, (1-6C)alkoxy, CN, NO₂, NH₂, OH, COOH, COOalkyl, CONH₂, formyl, trifluoromethyl or trifluoromethoxy;

25 R₁ and R₂ or R₈ and R₉ or R₁₀ and R₁₁ can form a 5- or 6-membered ring which may or may not have a heteroatom, such as O, S or N;

and when R₃ is a 6-membered nitrogenous heteroaryl or a thiazolyl, an imidazolyl or an oxazolyl, then at least one of the radicals R₅ and R₆ is an aryl optionally substituted by 1 or more substituents chosen from halogen, CN, NO₂, NH₂, OH,

OR₁₀, COOH, C(O)OR₁₀, -O-C(O)R₁₀, NR₁₀R₁₁, NHC(O)R₁₀, C(O)NR₁₀R₁₁, NHC(S)R₁₀, C(S)NR₁₀R₁₁, SR₁₀, S(O)R₁₀, SO₂R₁₀, NHSO₂R₁₀, SO₂NR₁₀R₁₁, -O-SO₂R₁₀, -SO₂-O-R₁₀, aryl, heteroaryl, formyl, trifluoromethyl, trifluoromethoxy, and (1-6C)alkyl;

- 5 to their racemates, enantiomers or diastereoisomers and their mixtures, to their tautomers and to their pharmaceutically acceptable salts.

The present invention preferably relates to derivatives of formula (I) in which:

R₃ is a (1-6C)alkyl, aryl, aryl(1-6C)alkyl, heteroaryl, heteroaryl(1-6C)alkyl, aryl or heteroaryl fused to a (1-10C) cycloalkyl, heterocycle, heterocycloalkyl, cycloalkyl,
 10 adamantyl, polycycloalkyl, alkenyl, alkynyl, CONR₁R₂, CSNR₁R₂, COOR₁, SO₂R₁ or C(=NH)NR₁ radical; these radicals optionally being substituted by 1 or more substituents chosen from halogen, CN, NO₂, NH₂, OH, OR₁, COOH, C(O)OR₁, -O-C(O)R₁, NR₁R₂, NHC(O)R₁, C(O)NR₁R₂, SR₁, S(O)R₁, SO₂R₁, NHSO₂R₁, SO₂NR₁R₂, C(S)NR₁R₂, NHC(S)R₁, -O-SO₂R₁, -SO₂-O-R₁, aryl, heteroaryl,
 15 formyl, oxo, trifluoromethyl, trifluoromethylsulfanyl, trifluoromethoxy or (1-6C)alkyl;

R₅ is an aryl;

R₆ and R₇ are, independently of one another, a halogen, methyl, cyclopropyl, CN, OH, methoxy, trifluoromethyl, ethylenyl, acetylenyl, trifluoromethoxy, NO₂, NH₂ or
 20 NMe₂

R₁ and R₂ are, independently of one another, a hydrogen, (1-6C)alkyl, aryl, alkenyl, alkynyl or heteroaryl, themselves optionally being substituted by 1 or more substituents chosen from halogen, (1-6C)alkyl, (1-6C)alkoxy, CN, NO₂, NH₂, OH, COOH, COOalkyl, CONH₂, formyl, oxo, trifluoromethyl or trifluoromethoxy;

25 R₁ and R₂ can form a 5- or 6-membered ring which may or may not have a heteroatom, such as O, S or N;

to their racemates, enantiomers, diastereoisomers and their mixtures, to their tautomers and to their pharmaceutically acceptable salts.

The present invention preferably relates to derivatives of formula (I) in which:

R3 is a (1-6C)alkyl, aryl, aryl(1-6C)alkyl, heteroaryl, heteroaryl(1-6C)alkyl, aryl or heteroaryl fused to a (1-10C) cycloalkyl, heterocycle, heterocycloalkyl, cycloalkyl, adamantyl, polycycloalkyl, alkenyl, alkynyl, CONR1R2, CSNR1R2, COOR1, SO₂R1
 5 or C(=NH)NR1 radical; these radicals optionally being substituted by 1 or more substituents chosen from halogen, CN, NO₂, NH₂, OH, OR1, COOH, C(O)OR1, -O-C(O)R1, NR1R2, NHC(O)R1, C(O)NR1R2, SR1, S(O)R1, SO₂R1, NHSO₂R1, SO₂NR1R2, C(S)NR1R2, NHC(S)R1, -O-SO₂R1, -SO₂-O-R1, aryl, heteroaryl, formyl, oxo, trifluoromethyl, trifluoromethylsulfanyl, trifluoromethoxy or (1-
 10 6C)alkyl;

R5 is an aryl;

R6 is a halogen, methyl, cyclopropyl, CN, OH, methoxy, trifluoromethyl, ethylenyl, acetylenyl, trifluoromethoxy, NO₂, NH₂ or NMe₂;

R7 is a halogen

15 R1 and R2 are, independently of one another, a hydrogen, (1-6C)alkyl, aryl, alkenyl, alkynyl or heteroaryl, themselves optionally being substituted by 1 or more substituents chosen from halogen, (1-6C)alkyl, (1-6C)alkoxy, CN, NO₂, NH₂, OH, COOH, COOalkyl, CONH₂, formyl, oxo, trifluoromethyl or trifluoromethoxy;

R1 and R2 may form a 5- or 6-membered ring optionally containing a heteroatom
 20 such as O, S or N;

to their racemates, enantiomers or diastereoisomers and their mixtures, to their tautomers, and to their pharmaceutically acceptable salts.

In the preceding definitions and those which follow, the (1-6C) alkyl radicals comprise 1 to 6 carbon atoms in a straight- or branched-chain; the alkenyl radicals
 25 comprise 2 to 6 carbon atoms and one to 3 conjugated or nonconjugated double bonds in a straight- or branched-chain; the alkynyl radicals comprise 2 to 6 carbon atoms and one to 3 conjugated or nonconjugated triple bonds in a straight- or branched-chain; the aryl radicals are chosen from phenyl, naphthyl or indenyl; the heteroaryl radicals comprise 3 to 10 ring members, optionally comprising one or more

heteroatoms chosen from oxygen, sulfur and nitrogen, in particular, thiazolyl, thienyl, pyrrolyl, pyridinyl, furyl, imidazolyl, oxazolyl, pyrazinyl, tetrazolyl, oxadiazolyl, thiadiazolyl, isoxadiazolyl, isothiadiazolyl, isothiazolyl, isoxazolyl, triazolyl, pyrazolyl or indolyl; the halogen radical is either chlorine, iodine, fluorine or bromine; the polycycloalkyl radicals are chosen from adamantyl, quinuclidinyl, bornanyl, norbornanyl, bornenyl or norbornenyl; the heteroaryl radicals fused to a (1-10C) cycloalkyl are chosen from indanyl, isochromanyl, chromanyl, 1,2,3,4-tetrahydroisoquinolyl or 1,2,3,4-tetrahydroquinolyl; the heterocycle radicals comprise 1 to 2 heteroatoms chosen from oxygen, sulfur or nitrogen and represent in particular piperidinyl, morpholinyl, pyrrolidinyl, imidazolidinyl, pyrazolidinyl, isothiazolidinyl, thiazolidinyl, isoxazolidinyl, oxazolidinyl, piperazinyl, azetidiny, 2-piperidone, 3-piperidone, 4-piperidone, 2-pyrrolidone or 3-pyrrolidone.

The compounds of formula (I) exhibiting one or more asymmetric carbons and can therefore exist in the form of isomers, of racemates, of enantiomers and of diastereoisomers; the latter also form part of the invention, as do their mixtures

Mention may be made, among the compounds of formula (I) of use according to the invention, of the following compounds:

N-(bicyclo[2.2.1]hept-5-en-2-ylmethyl)-6-chloro-7-fluoro-5-phenyl-1H-indazol-3-amine

6-chloro-7-fluoro-N-(3,3-dimethylbutyl)-5-phenyl-1H-indazol-3-amine

6-chloro-7-fluoro-N-(3-phenylpropyl)-5-phenyl-1H-indazol-3-amine

6-chloro-7-fluoro-N-(cyclopropylmethyl)-5-phenyl-1H-indazol-3-amine

6-chloro-7-fluoro-N-(cyclopentylmethyl)-5-phenyl-1H-indazol-3-amine

6-chloro-7-fluoro-N-[3-(methylthio)propyl]-5-phenyl-1H-indazol-3-amine

6-chloro-7-fluoro-N-(phenylethyl)-5-phenyl-1H-indazol-3-amine

6-chloro-7-fluoro-N-(cyclohexylmethyl)-5-phenyl-1H-indazol-3-amine

6-chloro-7-fluoro-N-propyl-5-phenyl-1H-indazol-3-amine

- 6-chloro-7-fluoro-N-(2,2,3,3,4,4,4-heptafluorobutyl)-5-phenyl-1H-indazol-3-amine hydrate
- 6-chloro-7-fluoro-N-(4,4,4-trifluorobutyl)-5-phenyl-1H-indazol-3-amine
- 6-chloro-7-fluoro-N-[(4-methoxyphenyl)methyl]-5-phenyl-1H-indazol-3-amine
- 5 6-chloro-7-fluoro-N-(phenylmethyl)-5-phenyl-1H-indazol-3-amine
- 6-chloro-7-fluoro-N-[(4-cyanophenyl)methyl]-5-phenyl-1H-indazol-3-amine
- N-[(4-chlorophenyl)methyl]-6-chloro-7-fluoro-5-phenyl-1H-indazol-3-amine
- 6-chloro-7-fluoro-N-[(3-methoxyphenyl)methyl]-5-phenyl-1H-indazol-3-amine
- 6-chloro-7-fluoro-N-[[4-(trifluoromethoxy)phenyl]methyl]-5-phenyl-1H-indazol-3-amine
- 10 amine
- N-[4-[[[6-chloro-7-fluoro-5-phenyl-1H-indazol-3-yl]amino]methyl]phenyl]acetamide
- 6-chloro-7-fluoro-N-[(3,5-dichlorophenyl)methyl]-5-phenyl-1H-indazol-3-amine
- 6-chloro-7-fluoro-5-phenyl-N-[[4-(trifluoromethyl)phenyl]methyl]-1H-indazol-3-amine
- 15 6-chloro-7-fluoro-N-[(4-fluorophenyl)methyl]-5-phenyl-1H-indazol-3-amine
- 6-chloro-7-fluoro-N-[3-(4-methylphenoxy)phenylmethyl]-5-phenyl-1H-indazol-3-amine
- N-(2,2,3,3,4,4,4-heptafluorobutyl)-6-chloro-7-fluoro-5-phenyl-1H-indazol-3-amine
- 6-chloro-7-fluoro-5-phenyl-N-[[3,5-bis(trifluoromethyl)phenyl]methyl]-1H-indazol-3-amine
- 20 3-amine
- 6-chloro-7-fluoro-5-phenyl-N-[[3-(trifluoromethyl)phenyl]methyl]-1H-indazol-3-amine
- 6-chloro-7-fluoro-N-[(6-methoxy-2-naphthyl)methyl]-5-phenyl-1H-indazol-3-amine
- 6-chloro-7-fluoro-N-[(pentafluorophenyl)methyl]-5-phenyl-1H-indazol-3-amine
- 25 6-chloro-7-fluoro-N-[[4-(methylthio)phenyl]methyl]-5-phenyl-1H-indazol-3-amine

- N-[(4-chloro-3-fluorophenyl)methyl]-6-chloro-7-fluoro-5-phenyl-1H-indazol-3-amine
- 6-chloro-7-fluoro-5-phenyl-N-(3,3,3-trifluoropropyl)-1H-indazol-3-amine
- 6-chloro-7-fluoro-5-phenyl-N-(3-thienylmethyl)-1H-indazol-3-amine
- 5 N-(bicyclo[2.2.1]hept-5-en-2-ylmethyl)-6-chloro-7-fluoro-5-phenyl-1H-indazol-3-amine
- N-(1,1'-biphenyl-4-ylmethyl)-6-chloro-7-fluoro-5-phenyl-1H-indazol-3-amine
- 6-chloro-7-fluoro-N-[[4-(dimethylamino)phenyl]methyl]-5-phenyl-1H-indazol-3-amine
- 10 N-(2,2'-bithiophen-5-ylmethyl)-6-chloro-7-fluoro-5-phenyl-1H-indazol-3-amine
- 6-chloro-7-fluoro-5-phenyl-N-[[1-(phenylmethyl)-1H-imidazol-2-yl]methyl]-1H-indazol-3-amine
- 6-chloro-7-fluoro-N-[[1-methyl-1H-imidazol-2-yl]methyl]-5-phenyl-1H-indazol-3-amine
- 15 6-chloro-7-fluoro-N-[(1-methyl-1H-indol-3-yl)methyl]-5-phenyl-1H-indazol-3-amine
- 6-chloro-7-fluoro-N-[(5-methyl-2-furanyl)methyl]-5-phenyl-1H-indazol-3-amine
- 6-chloro-7-fluoro-5-phenyl-N-(1H-pyrrol-2-ylmethyl)-1H-indazol-3-amine
- 6-chloro-7-fluoro-5-phenyl-N-[(1H-imidazol-2-yl)methyl]-1H-indazol-3-amine
- 6-chloro-7-fluoro-5-phenyl-N-[(1H-imidazol-4-yl)methyl]-1H-indazol-3-amine
- 20 6-chloro-7-fluoro-5-phenyl-N-(1H-pyrazol-3-ylmethyl)-1H-indazol-3-amine
- 6-chloro-7-fluoro-N-[[2-methyl-1H-imidazol-4-yl]methyl]-5-phenyl-1H-indazol-3-amine
- 6-chloro-7-fluoro-N-[(3,5-dimethyl-1-phenyl-1H-pyrazol-4-yl)methyl]-5-phenyl-1H-indazol-3-amine
- 25 6-chloro-7-fluoro-5-phenyl-N-[[2-phenyl-1H-imidazol-4-yl]methyl]-1H-indazol-3-amine

- 6-chloro-7-fluoro-N-[[5-(4-chlorophenyl)-2-furanyl]methyl]-5-phenyl-1H-indazol-3-amine
- 6-chloro-7-fluoro-5-phenyl-N-[(1-methyl-1H-pyrrol-2-yl)methyl]-1H-indazol-3-amine
- 5 4-[5-[[[6-chloro-7-fluoro-5-phenyl-1H-indazol-3-yl]amino]methyl]-2-furanyl]-benzenesulfonamide
- 6-chloro-7-fluoro-5-phenyl-N-(3-thienylmethyl)-1H-indazol-3-amine
- 6-chloro-7-fluoro-5-phenyl-N-[[2-phenyl-1H-imidazol-4-yl]methyl]-1H-indazol-3-amine
- 10 ethyl 2-[[[6-chloro-7-fluoro-5-phenyl-1H-indazol-3-yl]amino]methyl]-5-(methylthio)-1H-imidazole-4-carboxylate
- 6-chloro-7-fluoro-5-phenyl-N-[[5-[4-(trifluoromethyl)phenyl]-2-furanyl]methyl]-1H-indazol-3-amine
- 6-chloro-7-fluoro-5-phenyl-N-[2-(1-piperidiny)ethyl]-1H-indazol-3-amine
- 15 6-chloro-7-fluoro-N-[2-(4-morpholinyl)ethyl]-5-phenyl-1H-indazol-3-amine
- N-(6-chloro-7-fluoro-5-phenyl-1H-indazol-3-yl)-N'-(3,5-dichlorophenyl)urea
- N-(6-chloro-7-fluoro-5-phenyl-1H-indazol-3-yl)-N'-(2-propenyl)urea
- N-(6-chloro-7-fluoro-5-phenyl-1H-indazol-3-yl)-N'-(phenylmethyl)urea
- N-(6-chloro-7-fluoro-5-phenyl-1H-indazol-3-yl)-N'-(4-phenoxyphenyl)urea
- 20 N-(6-chloro-7-fluoro-5-phenyl-1H-indazol-3-yl)-N'-(4-methoxyphenyl)methyl]urea
- N-(6-chloro-7-fluoro-5-phenyl-1H-indazol-3-yl)-N'-[4-(trifluoromethyl)phenyl]urea
- N-(6-chloro-7-fluoro-5-phenyl-1H-indazol-3-yl)-N'-(4-methoxyphenyl)urea
- N-(6-chloro-7-fluoro-5-phenyl-1H-indazol-3-yl)-N'-cyclohexylurea
- N-(6-chloro-7-fluoro-5-phenyl-1H-indazol-3-yl)-N'-propylurea
- 25 N-(6-chloro-7-fluoro-5-phenyl-1H-indazol-3-yl)-N'-(4-chlorophenyl)urea

- N-(6-chloro-7-fluoro-5-phenyl-1H-indazol-3-yl)-N'-(4-fluorophenyl)urea
- N-[6-chloro-7-fluoro-5-phenyl-1H-indazol-3-yl]-N'-(tricyclo[3.3.1.1^{3,7}]dec)-1-ylurea
- N-(6-chloro-7-fluoro-5-phenyl-1H-indazol-3-yl)-N'-(4-methylphenyl)urea
- N-(6-chloro-7-fluoro-5-phenyl-1H-indazol-3-yl)urea
- 5 N-(6-chloro-7-methyl-5-phenyl-1H-indazol-3-yl)urea
- N-(6-chloro-7-cyano-5-phenyl-1H-indazol-3-yl)urea
- N-(6-chloro-7-cyclopropyl-5-phenyl-1H-indazol-3-yl)urea
- N-(6-chloro-7-hydroxy-5-phenyl-1H-indazol-3-yl)urea
- N-(6-chloro-7-methoxy-5-phenyl-1H-indazol-3-yl)urea
- 10 N-(6-chloro-7-trifluoromethyl-5-phenyl-1H-indazol-3-yl)urea
- N-(6-chloro-7-trifluoromethoxy-5-phenyl-1H-indazol-3-yl)urea
- N-(6-chloro-7-nitro-5-phenyl-1H-indazol-3-yl)urea
- N-(6-chloro-7-amino-5-phenyl-1H-indazol-3-yl)urea
- N-(6-chloro-7-dimethylamino-5-phenyl-1H-indazol-3-yl)urea
- 15 N-(6-chloro-7-ethynyl-5-phenyl-1H-indazol-3-yl)urea
- N-[6-chloro-7-fluoro-5-phenyl-1H-indazol-3-yl]-4-methyl-benzenesulfonamide
- N-[6-chloro-7-fluoro-5-phenyl-1H-indazol-3-yl]methanesulfonamide
- N-[6-chloro-7-fluoro-5-phenyl-1H-indazol-3-yl]-2-propanesulfonamide
- N-[6-chloro-7-fluoro-5-phenyl-1H-indazol-3-yl]-2,2,2-trifluoroethanesulfonamide
- 20 N-[6-chloro-7-fluoro-5-phenyl-1H-indazol-3-yl]-2-thiophenesulfonamide
- N-[6-chloro-7-fluoro-5-phenyl-1H-indazol-3-yl]benzenesulfonamide
- N-[6-chloro-7-fluoro-5-phenyl-1H-indazol-3-yl]-4-(trifluoromethyl)benzenesulfonamide
- N-[6-chloro-7-fluoro-5-phenyl-1H-indazol-3-yl]-5-(3-isoxazolyl)-2-thiophenesulfonamide
- 25 sulfonamide

- N-[6-chloro-7-fluoro-5-phenyl-1H-indazol-3-yl]-4-fluorobenzenesulfonamide
- N-[6-chloro-7-fluoro-5-phenyl-1H-indazol-3-yl]-4-methoxybenzenesulfonamide
- N-[6-chloro-7-fluoro-5-phenyl-1H-indazol-3-yl]benzenemethanesulfonamide
- 5 N-[6-chloro-7-fluoro-5-phenyl-1H-indazol-3-yl]-1-methyl-1H-imidazole-4-sulfonamide
- N-[6-chloro-7-fluoro-5-phenyl-1H-indazol-3-yl]-4-(1,1-dimethylethyl)benzenesulfonamide
- N-[4-[[[(6-chloro-7-fluoro-5-phenyl-1H-indazol-3-yl)amino]sulfonyl]phenyl]-acetamide
- 10 N-[6-chloro-7-fluoro-5-phenyl-1H-indazol-3-yl]-4-methylbenzenemethanesulfonamide
- 6-chloro-7-fluoro-N-(pentafluorophenyl)-5-phenyl-1H-indazol-3-amine
- 6-chloro-7-fluoro-N-(3,4-difluorophenyl)-5-phenyl-1H-indazol-3-amine
- 6-chloro-7-fluoro-5-phenyl-N-(2,3,5,6-tetrafluorophenyl)-1H-indazol-3-amine
- 15 6-chloro-7-fluoro-5-phenyl-N-(2,4,6-trifluorophenyl)-1H-indazol-3-amine
- 6-chloro-7-fluoro-N-(4-fluorophenyl)-5-phenyl-1H-indazol-3-amine
- 6-chloro-7-fluoro-N-[3-(trifluoromethyl)phenyl]-5-phenyl-1H-indazol-3-amine
- 6-chloro-7-fluoro-N-[4-(trifluoromethyl)phenyl]-5-phenyl-1H-indazol-3-amine
- 6-chloro-7-fluoro-N-[3-fluoro-5-(trifluoromethyl)phenyl]-5-phenyl-1H-indazol-3-
- 20 amine
- 6-chloro-7-fluoro-N-(4-nitrophenyl)-5-phenyl-1H-indazol-3-amine
- 6-chloro-7-fluoro-N-(3-nitrophenyl)-5-phenyl-1H-indazol-3-amine
- 6-chloro-7-fluoro-N-(3-methoxyphenyl)-5-phenyl-1H-indazol-3-amine
- 6-chloro-7-fluoro-N-(4-methoxyphenyl)-5-phenyl-1H-indazol-3-amine
- 25 6-chloro-7-fluoro-N,5-diphenyl-1H-indazol-3-amine

6-chloro-7-fluoro-N-(1-pyridinyl)-5-phenyl-1H-indazol-3-amine

6-chloro-7-fluoro-N-(2-pyridinyl)-5-phenyl-1H-indazol-3-amine

N-butyl-6-chloro-7-fluoro-5-phenyl-1H-indazol-3-amine

N-(6-chloro-7-fluoro-5-phenyl-1H-indazol-3-yl)-N'-phenylurea

5 N-(6-chloro-7-fluoro-5-phenyl-1H-indazol-3-yl)-3-methoxybenzenesulfonamide

their isomers, their mixtures, their racemates, enantiomers, diastereoisomers or tautomers, and their pharmaceutically acceptable salts,

and more particularly the following compound:

Piperidine-1-carboxylic acid (6,7-difluoro-5-phenyl-1H-indazol-3-yl)amide

10 Pyrrolidine-1-carboxylic acid (6,7-difluoro-5-phenyl-1H-indazol-3-yl)amide

1-(6,7-Difluoro-5-phenyl-1H-indazol-3-yl)-3-[3-(4-methylpiperazin-1-yl)propyl]urea

N-(6,7-Difluoro-5-phenyl-1H-indazol-3-yl)-N'-phenylurea

its tautomers, and their pharmaceutically acceptable salts,

The invention also relates to the pharmaceutical compositions comprising, as active

15 principle, a derivative of formula (I) in which

R₃ is a (1-6C)alkyl, aryl, aryl(1-6C)alkyl, heteroaryl, heteroaryl(1-6C)alkyl, aryl or heteroaryl fused to a (1-10C) cycloalkyl, heterocycle, heterocycloalkyl, cycloalkyl, adamantyl, polycycloalkyl, alkenyl, alkynyl, CONR₁R₂, CSNR₁R₂, COOR₁, SO₂R₁, C(=NH)R₁ or C(=NH)NR₁ radical; these radicals optionally being

20 substituted by 1 or more substituents chosen from CN, NO₂, NH₂, OH, OR₁, COOH, C(O)OR₁, -O-C(O)R₁, NR₁R₂, NHC(O)R₁, C(O)NR₁R₂, SR₁, S(O)R₁, SO₂R₁, NHSO₂R₁, SO₂NR₁R₂, C(S)NR₁R₂, NHC(S)R₁, -O-SO₂R₁, -SO₂-O-R₁, aryl, heteroaryl, heterocycle, formyl, trifluoromethyl, trifluoromethylsulfanyl, trifluoromethoxy or (1-6C)alkyl;

25 R₅, R₆ and R₇ are, independently of one another, chosen from the following radicals halogen, CN, NO₂, NH₂, OH, COOH, C(O)OR₈, -O-C(O)R₈, NR₈R₉, NHC(O)R₈, C(O)NR₈R₉, NHC(S)R₈, C(S)NR₈R₉, SR₈, S(O)R₈, SO₂R₈, NHSO₂R₈,

SO₂NR₈R₉, -O-SO₂R₈, -SO₂-O-R₈, trifluoromethyl, trifluoromethoxy, (1-6C)alkyl, (1-6C)alkoxy, aryl, aryl(1-6C)alkyl, heteroaryl, heteroaryl(1-6C)alkyl, heterocycle, cycloalkyl, alkenyl, alkynyl, adamantyl or polycycloalkyl; these radicals optionally being substituted by 1 or more substituents chosen from halogen, CN, NO₂, NH₂, OH,
 5 OR₁₀, COOH, C(O)OR₁₀, -O-C(O)R₁₀, NR₁₀R₁₁, NHC(O)R₁₀, C(O)NR₁₀R₁₁, NHC(S)R₁₀, C(S)NR₁₀R₁₁, SR₁₀, S(O)R₁₀, SO₂R₁₀, NHSO₂R₁₀, SO₂NR₁₀R₁₁, -O-SO₂R₁₀, -SO₂-O-R₁₀, aryl, heteroaryl, formyl, trifluoromethyl, trifluoromethoxy or (1-6C)alkyl;

R₁, R₂, R₈, R₉, R₁₀ and R₁₁ are, independently of one another, a hydrogen, (1-
 10 6C)alkyl, aryl, alkenyl, alkynyl, heteroaryl, themselves optionally being substituted by 1 or more substituents chosen from halogen, (1-6C)alkyl, (1-6C)alkoxy, CN, NO₂, NH₂, OH, COOH, COOalkyl, CONH₂, formyl, trifluoromethyl, trifluoromethoxy;

R₁ and R₂ or R₈ and R₉ or R₁₀ and R₁₁ can form a 5- or 6-membered ring which may or may not have a heteroatom, such as O, S or N;

15 and, when R₃ is a 6-membered nitrogenous heteroaryl or a thiazolyl or an imidazolyl or an oxazolyl, then at least one of the R₅ and R₆ groups is an aryl which is optionally substituted by 1 or more substituents chosen from halogen, CN, NO₂, NH₂, OH, OR₁₀, COOH, C(O)OR₁₀, -O-C(O)R₁₀, NR₁₀R₁₁, NHC(O)R₁₀, C(O)NR₁₀R₁₁, NHC(S)R₁₀, C(S)NR₁₀R₁₁, SR₁₀, S(O)R₁₀, SO₂R₁₀, NHSO₂R₁₀,
 20 SO₂NR₁₀R₁₁, -O-SO₂R₁₀, -SO₂-O-R₁₀, aryl, heteroaryl, formyl, trifluoromethyl, trifluoromethoxy or (1-6C)alkyl;

to their racemates, enantiomers or diastereoisomers and their mixtures, to their tautomers and to their pharmaceutically acceptable salts.

The present invention relates more particularly to the pharmaceutical compositions
 25 comprising, as active principle, a derivative of formula (I) in which:

R₃ is a (1-6C)alkyl, aryl, aryl(1-6C)alkyl, heteroaryl, heteroaryl(1-6C)alkyl, aryl or heteroaryl fused to a (1-10C) cycloalkyl, heterocycle, heterocycloalkyl, cycloalkyl, adamantyl, polycycloalkyl, alkenyl, alkynyl, CONR₁R₂, CSNR₁R₂, COOR₁, SO₂R₁, C(=NH)R₁ or C(=NH)NR₁ radical; these radicals optionally being

substituted by 1 or more substituents chosen from halogen, CN, NO₂, NH₂, OH, OR₁, COOH, C(O)OR₁, -O-C(O)R₁, NR₁R₂, NHC(O)R₁, C(O)NR₁R₂, SR₁, S(O)R₁, SO₂R₁, NHSO₂R₁, SO₂NR₁R₂, C(S)NR₁R₂, NHC(S)R₁, -O-SO₂R₁, -SO₂-O-R₁, aryl, heteroaryl, heterocycle, formyl, trifluoromethyl, trifluoromethylsulfanyl, trifluoromethoxy or (1-6C)alkyl;

R₅ and R₆ are chosen, independently of one another, from the following radicals: halogen, CN, NO₂, NH₂, OH, COOH, C(O)OR₈, -O-C(O)R₈, NR₈R₉, NHC(O)R₈, C(O)NR₈R₉, NHC(S)R₈, C(S)NR₈R₉, SR₈, S(O)R₈, SO₂R₈, NHSO₂R₈, SO₂NR₈R₉, -O-SO₂R₈, -SO₂-O-R₈, trifluoromethyl, trifluoromethoxy, (1-6C)alkyl, (1-6C)alkoxy, aryl, aryl(1-6C)alkyl, heteroaryl, heteroaryl(1-6C)alkyl, heterocycle, cycloalkyl, alkenyl, alkynyl, adamantyl, polycycloalkyls; these radicals optionally being substituted by 1 or more substituents chosen from halogen, CN, NO₂, NH₂, OH, OR₁₀, COOH, C(O)OR₁₀, -O-C(O)R₁₀, NR₁₀R₁₁, NHC(O)R₁₀, C(O)NR₁₀R₁₁, NHC(S)R₁₀, C(S)NR₁₀R₁₁, SR₁₀, S(O)R₁₀, SO₂R₁₀, NHSO₂R₁₀, SO₂NR₁₀R₁₁, -O-SO₂R₁₀, -SO₂-O-R₁₀, aryl, heteroaryl, formyl, trifluoromethyl, trifluoromethoxy or (1-6C)alkyl;

R₇ is a halogen, methyl, cyclopropyl, CN, OH, methoxy, trifluoromethyl, ethylenyl, acetylenyl, trifluoromethoxy, NO₂, NH₂ or NMe₂

R₁, R₂, R₈, R₉, R₁₀ and R₁₁ are, independently of one another, a hydrogen, (1-6C)alkyl, aryl, alkenyl, alkynyl or heteroaryl, themselves optionally being substituted by 1 or more substituents chosen from halogen, (1-6C)alkyl, (1-6C)alkoxy, CN, NO₂, NH₂, OH, COOH, COOalkyl, CONH₂, formyl, trifluoromethyl or trifluoromethoxy;

R₁ and R₂ or R₈ and R₉ or R₁₀ and R₁₁ can form a 5- or 6-membered ring which may or may not have a heteroatom, such as O, S or N;

and when R₃ is a 6-membered nitrogenous heteroaryl or a thiazolyl, imidazolyl or oxazolyl, then at least one of the radicals R₅ and R₆ is an aryl optionally substituted by 1 or more substituents chosen from halogen, CN, NO₂, NH₂, OH, OR₁₀, COOH, C(O)OR₁₀, -O-C(O)R₁₀, NR₁₀R₁₁, NHC(O)R₁₀, C(O)NR₁₀R₁₁, NHC(S)R₁₀, C(S)NR₁₀R₁₁, SR₁₀, S(O)R₁₀, SO₂R₁₀, NHSO₂R₁₀, SO₂NR₁₀R₁₁, -O-SO₂R₁₀,

-SO₂-O-R₁₀, aryl, heteroaryl, formyl, trifluoromethyl, trifluoromethoxy and (1-6C)alkyl ;

to their racemates, enantiomers or diastereoisomers and their mixtures, to their tautomers and to their pharmaceutically acceptable salts.

- 5 The present invention preferably relates to the pharmaceutical compositions comprising, as active principle, a derivative of formula (I) in which:

R₃ is a (1-6C)alkyl, aryl, aryl(1-6C)alkyl, heteroaryl, heteroaryl(1-6C)alkyl, aryl or heteroaryl fused to a (1-10C) cycloalkyl, heterocycle, heterocycloalkyl, cycloalkyl, adamantyl, polycycloalkyl, alkenyl, alkynyl, CONR₁R₂, CSNR₁R₂, COOR₁, SO₂R₁

- 10 or C(=NH)NR₁ radical; these radicals optionally being substituted by 1 or more substituents chosen from halogen, CN, NO₂, NH₂, OH, OR₁, COOH, C(O)OR₁, -O-C(O)R₁, NR₁R₂, NHC(O)R₁, C(O)NR₁R₂, SR₁, S(O)R₁, SO₂R₁, NHSO₂R₁, SO₂NR₁R₂, C(S)NR₁R₂, NHC(S)R₁, -O-SO₂R₁, -SO₂-O-R₁, aryl, heteroaryl, formyl, oxo, trifluoromethyl, trifluoromethylsulfanyl, trifluoromethoxy or (1-
15 6C)alkyl;

R₅ is an aryl;

R₆ and R₇ are, independently of one another, a halogen, methyl, cyclopropyl, CN, OH, methoxy, trifluoromethyl, ethylenyl, acetylenyl, trifluoromethoxy, NO₂, NH₂, NMe₂

- 20 R₁ and R₂ are, independently of one another, a hydrogen, (1-6C)alkyl, aryl, alkenyl, alkynyl or heteroaryl, themselves optionally being substituted by 1 or more substituents chosen from halogen, (1-6C)alkyl, (1-6C)alkoxy, CN, NO₂, NH₂, OH, COOH, COOalkyl, CONH₂, formyl, trifluoromethyl or trifluoromethoxy;

- R₁ and R₂ may form a 5- or 6-membered ring optionally containing a heteroatom
25 such as O, S or N;

to their racemates, enantiomers or diastereoisomers and to their mixtures, their tautomers, and to their pharmaceutically acceptable salts.

The present invention also relates to the use, as medicament, of the aminoindazole derivatives of the formula (I) in which:

R3 is a (1-6C)alkyl, aryl, aryl(1-6C)alkyl, heteroaryl, heteroaryl(1-6C)alkyl, aryl or heteroaryl fused to a (1-10C) cycloalkyl, heterocycle, heterocycloalkyl, cycloalkyl, adamantyl, polycycloalkyl, alkenyl, alkynyl, CONR1R2, CSNR1R2, COOR1, SO2R1, C(=NH)R1 or C(=NH)NR1 radical; these radicals optionally being substituted by 1 or more substituents chosen from CN, NO2, NH2, OH, OR1, COOH, C(O)OR1, -O-C(O)R1, NR1R2, NHC(O)R1, C(O)NR1R2, SR1, S(O)R1, SO2R1, NHSO2R1, SO2NR1R2, C(S)NR1R2, NHC(S)R1, -O-SO2R1, -SO2-O-R1, aryl, heteroaryl, heterocycle, formyl, trifluoromethyl, trifluoromethylsulfanyl, trifluoromethoxy or (1-6C)alkyl;

R5, R6 and R7 are, independently of one another, chosen from the following radicals halogen, CN, NO2, NH2, OH, COOH, C(O)OR8, -O-C(O)R8, NR8R9, NHC(O)R8, C(O)NR8R9, NHC(S)R8, C(S)NR8R9, SR8, S(O)R8, SO2R8, NHSO2R8, SO2NR8R9, -O-SO2R8, -SO2-O-R8, trifluoromethyl, trifluoromethoxy, (1-6C)alkyl, (1-6C)alkoxy, aryl, aryl(1-6C)alkyl, heteroaryl, heteroaryl(1-6C)alkyl, heterocycle, cycloalkyl, alkenyl, alkynyl, adamantyl or polycycloalkyl; these radicals optionally being substituted by 1 or more substituents chosen from halogen, CN, NO2, NH2, OH, OR10, COOH, C(O)OR10, -O-C(O)R10, NR10R11, NHC(O)R10, C(O)NR10R11, NHC(S)R10, C(S)NR10R11, SR10, S(O)R10, SO2R10, NHSO2R10, SO2NR10R11, -O-SO2R10, -SO2-O-R10, aryl, heteroaryl, formyl, trifluoromethyl, trifluoromethoxy or (1-6C)alkyl;

R1, R2, R8, R9, R10 and R11 are, independently of one another, a hydrogen, (1-6C)alkyl, aryl, alkenyl, alkynyl, heteroaryl, themselves optionally being substituted by 1 or more substituents chosen from halogen, (1-6C)alkyl, (1-6C)alkoxy, CN, NO2, NH2, OH, COOH, COOalkyl, CONH2, formyl, trifluoromethyl, trifluoromethoxy;

R1 and R2 or R8 and R9 or R10 and R11 can form a 5- or 6-membered ring which may or may not have a heteroatom, such as O, S or N;

and, when R3 is a 6-membered nitrogenous heteroaryl or a thiazolyl or an imidazolyl or an oxazolyl, then at least one of the R5 and R6 groups is an aryl which is optionally substituted by 1 or more substituents chosen from halogen, CN, NO₂, NH₂, OH, OR₁₀, COOH, C(O)OR₁₀, -O-C(O)R₁₀, NR₁₀R₁₁, NHC(O)R₁₀,
 5 C(O)NR₁₀R₁₁, NHC(S)R₁₀, C(S)NR₁₀R₁₁, SR₁₀, S(O)R₁₀, SO₂R₁₀, NHSO₂R₁₀, SO₂NR₁₀R₁₁, -O-SO₂R₁₀, -SO₂-O-R₁₀, aryl, heteroaryl, formyl, trifluoromethyl, trifluoromethoxy or (1-6C)alkyl;

to their racemates, enantiomers or diastereoisomers and their mixtures, to their tautomers and to their pharmaceutically acceptable salts.

10 The present invention relates more particularly to the use, as medicament, of the aminoindazole derivatives of formula (I) in which:

R3 is a (1-6C)alkyl, aryl, aryl(1-6C)alkyl, heteroaryl, heteroaryl(1-6C)alkyl, aryl or heteroaryl fused to a (1-10C) cycloalkyl, heterocycle, heterocycloalkyl, cycloalkyl, adamantyl, polycycloalkyl, alkenyl, alkynyl, CONR₁R₂, CSNR₁R₂, COOR₁,
 15 SO₂R₁, C(=NH)R₁ or C(=NH)NR₁ radical; these radicals optionally being substituted by 1 or more substituents chosen from halogen, CN, NO₂, NH₂, OH, OR₁, COOH, C(O)OR₁, -O-C(O)R₁, NR₁R₂, NHC(O)R₁, C(O)NR₁R₂, SR₁, S(O)R₁, SO₂R₁, NHSO₂R₁, SO₂NR₁R₂, C(S)NR₁R₂, NHC(S)R₁, -O-SO₂R₁, -SO₂-O-R₁, aryl, heteroaryl, heterocycle, formyl, trifluoromethyl, trifluoromethylsulfanyl,
 20 trifluoromethoxy or (1-6C)alkyl;

R5 and R6 are chosen, independently of one another, from the following radicals: halogen, CN, NO₂, NH₂, OH, COOH, C(O)OR₈, -O-C(O)R₈, NR₈R₉, NHC(O)R₈, C(O)NR₈R₉, NHC(S)R₈, C(S)NR₈R₉, SR₈, S(O)R₈, SO₂R₈, NHSO₂R₈, SO₂NR₈R₉, -O-SO₂R₈, -SO₂-O-R₈, trifluoromethyl, trifluoromethoxy, (1-6C)alkyl,
 25 (1-6C)alkoxy, aryl, aryl(1-6C)alkyl, heteroaryl, heteroaryl(1-6C)alkyl, heterocycle, cycloalkyl, alkenyl, alkynyl, adamantyl, polycycloalkyls; these radicals optionally being substituted by 1 or more substituents chosen from halogen, CN, NO₂, NH₂, OH, OR₁₀, COOH, C(O)OR₁₀, -O-C(O)R₁₀, NR₁₀R₁₁, NHC(O)R₁₀, C(O)NR₁₀R₁₁, NHC(S)R₁₀, C(S)NR₁₀R₁₁, SR₁₀, S(O)R₁₀, SO₂R₁₀, NHSO₂R₁₀, SO₂NR₁₀R₁₁,

-O-SO₂R₁₀, -SO₂-O-R₁₀, aryl, heteroaryl, formyl, trifluoromethyl, trifluoromethoxy or (1-6C)alkyl;

R₇ is a halogen, methyl, cyclopropyl, CN, OH, methoxy, trifluoromethyl, ethylenyl, acetylenyl, trifluoromethoxy, NO₂, NH₂ or NMe₂

- 5 R₁, R₂, R₈, R₉, R₁₀ and R₁₁ are, independently of one another, a hydrogen, (1-6C)alkyl, aryl, alkenyl, alkynyl or heteroaryl, themselves optionally being substituted by 1 or more substituents chosen from halogen, (1-6C)alkyl, (1-6C)alkoxy, CN, NO₂, NH₂, OH, COOH, COOalkyl, CONH₂, formyl, trifluoromethyl or trifluoromethoxy;

- 10 R₁ and R₂ or R₈ and R₉ or R₁₀ and R₁₁ can form a 5- or 6-membered ring which may or may not have a heteroatom, such as O, S or N;

- and, when R₃ is a 6-membered nitrogenous heteroaryl or a thiazolyl or an imidazolyl or an oxazolyl, then at least one of the R₅ and R₆ groups is an aryl which is optionally substituted by 1 or more substituents chosen from halogen, CN, NO₂, NH₂, OH, OR₁₀, COOH, C(O)OR₁₀, -O-C(O)R₁₀, NR₁₀R₁₁, NHC(O)R₁₀,
 15 C(O)NR₁₀R₁₁, NHC(S)R₁₀, C(S)NR₁₀R₁₁, SR₁₀, S(O)R₁₀, SO₂R₁₀, NHSO₂R₁₀, SO₂NR₁₀R₁₁, -O-SO₂R₁₀, -SO₂-O-R₁₀, aryl, heteroaryl, formyl, trifluoromethyl, trifluoromethoxy or (1-6C)alkyl;

to their racemates, enantiomers or diastereoisomers and their mixtures, to their tautomers and to their pharmaceutically acceptable salts.

- 20 The present invention preferably relates to the use, as medicament, of the aminoindazole derivatives of formula (I) in which:

- R₃ is a (1-6C)alkyl, aryl, aryl(1-6C)alkyl, heteroaryl, heteroaryl(1-6C)alkyl, aryl or heteroaryl fused to a (1-10C) cycloalkyl, heterocycle, heterocycloalkyl, cycloalkyl, adamantyl, polycycloalkyl, alkenyl, alkynyl, CONR₁R₂, CSNR₁R₂, COOR₁, SO₂R₁
 25 or C(=NH)NR₁ radical, these radicals optionally being substituted by 1 or more substituents chosen from halogen, CN, NO₂, NH₂, OH, OR₁, COOH, C(O)OR₁, -O-C(O)R₁, NR₁R₂, NHC(O)R₁, C(O)NR₁R₂, SR₁, S(O)R₁, SO₂R₁, NHSO₂R₁, SO₂NR₁R₂, C(S)NR₁R₂, NHC(S)R₁, -O-SO₂R₁, -SO₂-O-R₁, aryl, heteroaryl,

formyl, oxo, trifluoromethyl, trifluoromethylsulfanyl, trifluoromethoxy or (1-6C)alkyl;

R5 is an aryl;

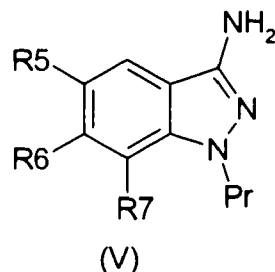
R6 and R7 are, independently of one another, a halogen, methyl, cyclopropyl, CN, OH, methoxy, trifluoromethyl, ethylenyl, acetylenyl, trifluoromethoxy, NO₂, NH₂ or NMe₂

R1 and R2 are, independently of one another, a hydrogen, (1-6C)alkyl, aryl, alkenyl, alkynyl or heteroaryl, themselves optionally being substituted by 1 or more substituents chosen from halogen, (1-6C)alkyl, (1-6C)alkoxy, CN, NO₂, NH₂, OH, COOH, COOalkyl, CONH₂, formyl, oxo, trifluoromethyl or trifluoromethoxy;

R1 and R2 may form a 5- or 6-membered ring optionally containing a heteroatom such as O, S or N;

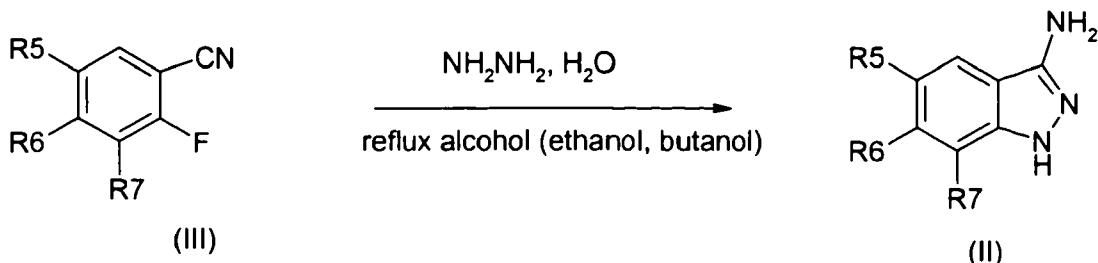
to their racemates, enantiomers or diastereoisomers and to their mixtures, their tautomers, and to their pharmaceutically acceptable salts.

The derivatives of formula (I) can be obtained from the corresponding 3-amino derivatives (V) for which the nitrogen in the 1-position is optionally protected with a group Pr. Pr is a trimethylsilylethoxymethyl, tosyl, mesyl or benzyl radical or the groups known for the protection of the NH groups of aromatic heterocycles as indicated in T.W. Greene, Protective Groups in Organic Synthesis, J. Wiley-Interscience Publication (1999)



The 3-amino 1H-indazoles of formula (II) can be obtained by reaction of a 2-fluorobenzonitrile with hydrazine hydrate or hydrochloride at reflux for 2 to 18 hours

in an alcohol of ethanol or n-butanol type according to R.F. Kaltenbach, *Bioorg. Med. Chem. Lett.*, 9(15), 2259-62 (1999):

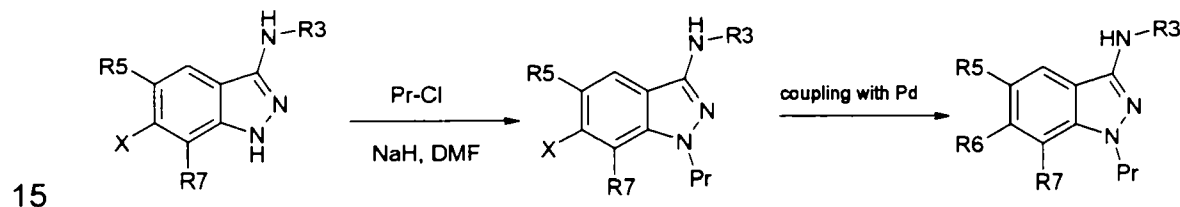


The compounds for which R5 and R6 are, independently of one another, chosen from the following radicals: halogen, CN, NO₂, NH₂, OH, COOH, C(O)OR₈, -O-C(O)R₈, NR₈R₉, NHC(O)R₈, C(O)NR₈R₉, NHC(S)R₈, C(S)NR₈R₉, SR₈, S(O)R₈, SO₂R₈, NHSO₂R₈, SO₂NR₈R₉, -O-SO₂R₈, -SO₂-O-R₈, trifluoromethyl, trifluoromethoxy, (1-6C)alkyl, (1-6C)alkoxy, aryl, aryl(1-6C)alkyl, heteroaryl, heteroaryl(1-6C)alkyl, cycloalkyl, alkenyl, alkynyl or adamantyl; these radicals optionally being substituted by 1 or more substituents chosen from halogen, CN, NO₂, NH₂, OH, OR₁₀, COOH, C(O)OR₁₀, -O-C(O)R₁₀, NR₁₀R₁₁, NHC(O)R₁₀, C(O)NR₁₀R₁₁, NHC(S)R₁₀, C(S)NR₁₀R₁₁, SR₁₀, S(O)R₁₀, SO₂R₁₀, NHSO₂R₁₀, SO₂NR₁₀R₁₁, -O-SO₂R₁₀, -SO₂-O-R₁₀, aryl, heteroaryl, formyl, oxo, trifluoromethyl, trifluoromethoxy or (1-6C)alkyl; can be obtained by reactions involving the chemistry of palladium: Suzuki (A. Suzuki, *Pure Appl. Chem.*, 63, 419-22 (1991), Stille (J. Stille, *Angew. Chem., Int. Ed.*, 25, 508-24 (1986)), Heck (R. F. Heck, *Org. React.*, 27, 345-90 (1982)), Sonogashira, (K. Sonogashira, *Synthesis*, 777 (1977)), Buckwald (S.L. Buckwald, *Acc. Chem. Re.*, 31, 805 (1998)), from the corresponding halogenated derivatives.

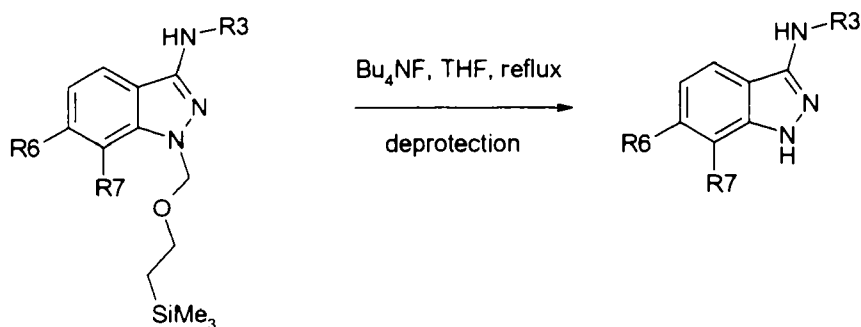
For this, it is necessary to protect the reactive functional groups. Thus, the OH, SH, COOH and NH₂ functional groups must be protected before carrying out the coupling. The protective groups are introduced according to any method known to a person skilled in the art and in particular those described by T.W. Greene, *Protective groups in Organic Synthesis*, J. Wiley-Interscience Publication (1999). It is preferable to protect the nitrogen in the 1-position with groups such as *tert*-butoxycarbonyl or silicon derivatives. The choice will preferably be made of a *tert*-butyldimethylsilyl or triisopropylsilyl silyl group which can be removed by fluoride anions or with acetic

acid and more particularly a trimethylsilylethoxymethyl group which can be cleaved by tetrabutylammonium fluoride at reflux in solvents such as tetrahydrofuran or dioxane (J. P. Whitten, *J. Org. Chem.*, 51, 1891 (1986); B. H. Lipshutz, *Tetrahedron Lett.*, 4095 (1986)) or by 2N hydrochloric acid in methanol or ethanol at reflux.

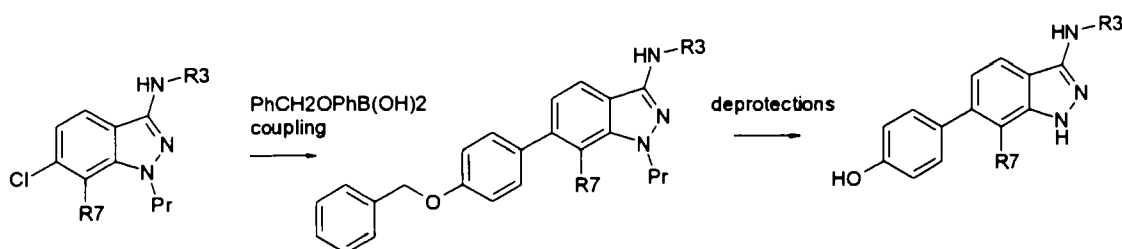
- 5 The derivatives protected in the 1-position with trimethylsilylethoxymethyl are obtained by reacting the starting compound with trimethylsilylethoxymethyl chloride in the presence of sodium hydride in a solvent, such as dimethylformamide, at ambient temperature (J. P. Whitten, *J. Org. Chem.*, 51, 1891 (1986); M. P. Edwards, *Tetrahedron*, 42, 3723 (1986)).
- 10 Likewise, the 1-NH nitrogen functional group of the indazole will be protected by groups such as silyl derivatives, benzyl, carbamate or tosyl. For example, in the case where it would be desired to carry out coupling with palladium to a derivative halogenated in the 6-position, it will be necessary to protect the nitrogen in the 1-position as shown below (X = Cl, Br or I):



- 20 Deprotection is carried out according to methods known to a person skilled in the art and described by T W. Greene, *Protective Groups in Organic Synthesis*, J. Wiley-Interscience Publication (1999). For example, if the protective group in the 1-position is a trimethylsilylethoxymethyl, it can be deprotected by reaction with tetrabutylammonium fluoride as shown below:

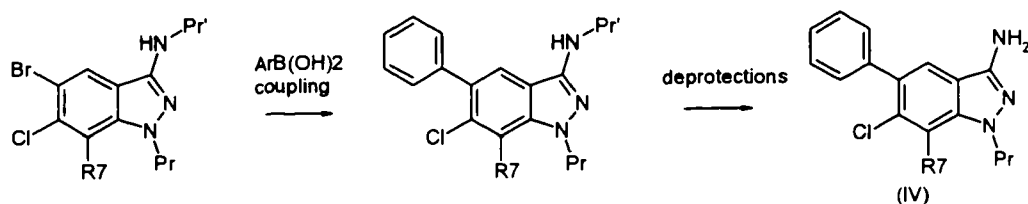


When one of the R5 or R6 groups involved in the coupling using the chemistry of palladium itself comprises a reactive functional group, such as hydroxyl, amine, thiol or acid or generally includes a heteroatom, it is also necessary to protect the latter before carrying out the coupling with palladium. Thus, for example, a phenol functional group will be introduced in the protected form (O-benzyl, for example) from the chlorinated derivative, the nitrogen in the 1-position being protected as explained previously:



The benzyl group will subsequently be removed, for example by treatment with trimethylsilyl iodide at reflux in acetonitrile. Protection can also be carried out by a trimethylsilylethoxymethyl group which can be cleaved by tetrabutylammonium fluoride at reflux in solvents such as tetrahydrofuran or dioxane. (J. P. Whitten, *J. Org. Chem.*, 51, 1891 (1986); B. H. Lipshutz, *Tetrahedron Lett.*, 4095 (1986)) or by 2N hydrochloric acid in methanol or ethanol at reflux.

When R5 and R6 are, independently of one another, an aryl and a halogen, the aryl functional group is introduced from coupling with palladium to a brominated position, the nitrogen in the 1- and 3-positions being appropriately protected. Preferably, Pr represents a trimethylsilylethoxymethyl and Pr' represents an n-butylcarbonyl group which forms, with the nitrogen, an n-butylamide. The stage of deprotecting the amide is carried out in the presence of ethanolamine at reflux for one week in DMF. This cleavage can also be carried out with stannous chloride in ethanol (R J Griffin, *J. Chem. Soc. Perkin I*, 1992, 1811-1819) or else sodium methoxide in methanol (Y. Furukawa, *Chem. Pharm. Bull.*, 1968, 16, 1076) or any other alkoxide in the corresponding alcohol.



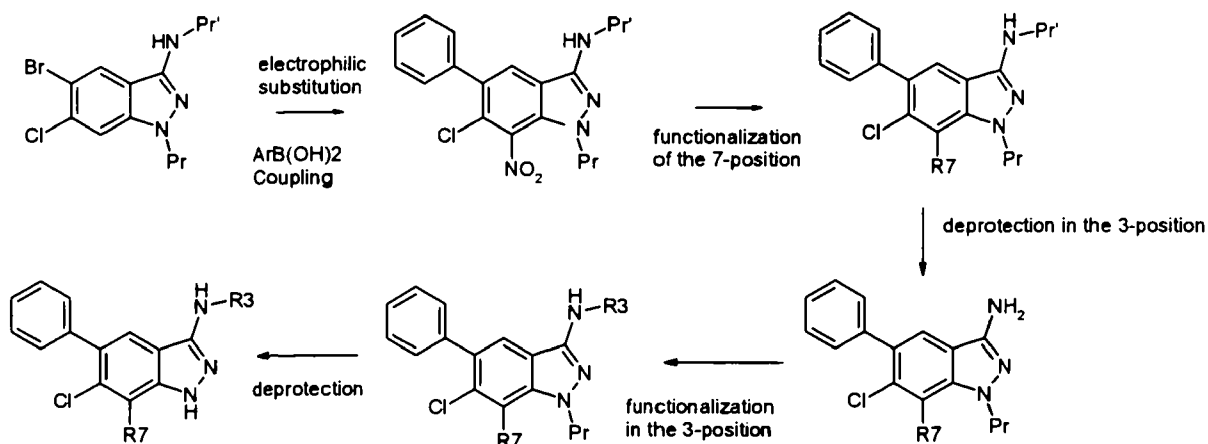
When R5 and R6 are, independently of one another, an aryl and a halogen, the aryl functional group is introduced from coupling with palladium to a brominated position, the nitrogen in the 1- and 3-positions being appropriately protected.

5 Preferably, Pr represents a trimethylsilylethoxymethyl and Pr' represents an n-butylcarboxy group which forms, with the nitrogen, an n-butylamide. The electrophilic substitution is carried out, for example, with nitronium tetrafluoroborate (NO₂BF₄). The coupling of the 5-position is performed using palladium chemistry (Suzuki, Heck or Sonogashira coupling).

10 a function of the desired substituents, by reductions, halogenations to introduce a bromine, or coupling by palladium chemistry (Suzuki, Heck or Sonogashira coupling) to introduce aryl, heteroaryl, alkyl, alkenyl, alkynyl or acetylenic functions. The stage of deprotecting the amide is carried out in the presence of ethanolamine at reflux for one week in DMF. This cleavage can also be carried out with stannous chloride in

15 ethanol (R J Griffin, J. Chem. Soc. Perkin I, 1992, 1811-1819) or else sodium methoxide in methanol (Y. Furukawa, Chem. Pharm. Bull., 1968, 16, 1076) or any other alkoxide in the corresponding alcohol. The deprotection in the 3-position produces the NH₂ functional group, which can react with the necessary groups to introduce the desired substitutions into the 3-position as described in the following

20 pages.



The compounds of formula (II) are the starting point for the preparation of a great variety of products obtained by reaction of the primary amine functional group of the 3-aminoindazole in all the conventional reactions of this functional group, such as:

5 alkylation, acylation, reactions with carbonyl derivatives followed by reduction, sulfonation, conversion to ureas or carbamates, arylation (Castro reaction or Buchwald reaction), and the like.

The reductive aminations of derivatives of general formula (I) where R₃ is H when Pr is trimethylsilylethoxymethyl can be carried out using boron derivatives, such as

10 sodium triacetoxyborohydride, in dichloromethane in the presence of an aldehyde of type R₁CHO under the conditions described in Organic Reactions, Vol. 59, 1-714 (E. Baxter, A. Reitz), or by the other reducing agents commonly used to reduce imines, to form products where R₃ is (1-6C)alkyl, aryl(1-6C)alkyl, heteroaryl(1-6C)alkyl, heterocycloalkyl, cycloalkyl or polycycloalkyl, these radicals optionally being

15 substituted by 1 or more substituents chosen from halogen, CN, NO₂, NH₂, OH, OR₁, COOH, C(O)OR₁, -O-C(O)R₁, NR₁R₂, NHC(O)R₁, C(O)NR₁R₂, SR₁, S(O)R₁, SO₂R₁, NHSO₂R₁, SO₂NR₁R₂, C(S)NR₁R₂, NHC(S)R₁, -O-SO₂R₁, -SO₂-O-R₁, aryl, heteroaryl, formyl, oxo, trifluoromethyl, trifluoromethylsulfanyl, trifluoromethoxy or (1-6C)alkyl.

20

Condensations of derivatives of general formula (I) where R₃ is H with isocyanates of type OCNR₁ can be carried out in particular in tetrahydrofuran and according to the examples described in Comprehensive Organic Functional Group

Transformations, Vol. 6 (Katritzky, Meth-Cohn, Rees 1995), to form products where R3 is CONR1R2 or CSNR1R2, R1 and R2 are, independently of one another, a hydrogen, (1-6C)alkyl, aryl, alkenyl, alkynyl or heteroaryl, themselves optionally being substituted by 1 or more substituents chosen from halogen, (1-6C)alkyl, (1-6C)alkoxy, CN, NO₂, NH₂, OH, COOH, COOalkyl, CONH₂, formyl, oxo, trifluoromethyl or trifluoromethoxy.

Sulfonations of derivatives of general formula (I) where R3 is H can be carried out from a sulfonyl chloride of R1SO₂Cl type in the presence of a base (in particular tertiary amines, such as triethylamine, or aromatic amines, such as pyridine) in a conventional solvent, such as, for example, dichloromethane, to form the products where R3 is SO₂R1 and R1 is a hydrogen, (1-6C)alkyl, aryl, alkenyl, alkynyl or heteroaryl, themselves optionally being substituted by 1 or more substituents chosen from halogen, (1-6C)alkyl, (1-6C)alkoxy, CN, NO₂, NH₂, OH, COOH, COOalkyl, CONH₂, formyl, oxo, trifluoromethyl or trifluoromethoxy.

The compounds of formula (I) are isolated and can be purified by the usual known methods, for example by crystallization, chromatography or extraction.

The compounds of formula (I) can optionally be converted to addition salts with an inorganic or organic acid by the action of such an acid in an organic solvent, such as an alcohol, ketone, an ether or a chlorinated solvent. These salts also form part of the invention.

Mention may be made, as examples of pharmaceutically acceptable salts, of the following salts: benzenesulfonate, hydrobromide, hydrochloride, citrate, ethanesulfonate, fumarate, gluconate, iodate, maleate, isethionate, methanesulfonate, methylenebis-β-oxynaphthoate, nitrate, oxalate, pamoate, phosphate, salicylate, succinate, sulfate, tartrate, theophyllineacetate and p-toluenesulfonate.

The compounds of formula (I) are kinase inhibitors and are thus of use in the prevention and treatment of neurodegenerative diseases, Alzheimer's disease, Parkinson's disease, frontoparietal dementia, corticobasal degeneration, Pick's disease, strokes, cranial and spinal traumas and peripheral neuropathies, obesity,

essential hypertension, atherosclerotic cardiovascular diseases, polycystic ovaries syndrome, syndrome X, immunodeficiency and cancer.

5 The activities were determined by measuring the inhibition of the phosphorylation of the tau protein in adult rat cortex sections.

Cortex sections with a thickness of 300 μ m are prepared from male OFA rats (Iffa-Credo) aged 8-10 weeks, sacrificed by decapitation. They are incubated in 5 ml of DMEM medium comprising pyruvate and glucose 4.5 g/l at 37°C for 40 min. The sections are subsequently washed twice with the medium, distributed in microtubes
10 (50 μ l in 500 μ l of medium, with or without test compounds) and incubated at 37°C with stirring. Two hours later, the experiment is halted by centrifuging. The sections are lysed, sonicated and centrifuged at 18300g for 15 min at 4°C. The concentration of proteins in the supernatant is determined by a commercial assay (BCA Protein Assay, Pierce) based on the Lowry method.

15 The samples, denatured beforehand at 70°C for 10 min, are separated on 4-12% Bis-tris vertical gel in the presence of MOPS-SDS buffer and are electrotransferred onto a nitrocellulose membrane. Immunolabeling is carried out with the monoclonal antibody AD2, which specifically recognizes the Ser396/404 phosphorylated epitopes of the tau protein. The immunoreactive proteins are visualized by addition of a second
20 antibody directed against mouse IgGs and coupled to peroxidase and of a chemoluminescent substrate. The autoradiograms obtained are finally quantified using the 'GeneTools' software from Syngene (GeneGnome, Ozyme) to determine an IC₅₀ value.

25 The compounds of formula (I) exhibit a highly advantageous activity and in particular some compounds have an IC₅₀ value of less than 100 μ M.

The following examples illustrate the invention without implied limitation.

The conditions for analysis of the products by LC/MS were produced on a Waters Alliance 2695 device for the LC part and a Waters-Micromass Platform II for the mass part.

Preparation of the intermediate products:

6,7-Difluoro-1H-indazole-3-amine:

0.32 cm³ of hydrazine monohydrate is added to 0.46 cm³ of 2,3,4-trifluorobenzonitrile in 10 cm³ of absolute ethanol. The medium is heated at about
5 75°C for 17 hours, followed by addition of 10 cm³ of ethyl acetate, 5 cm³ of tetrahydrofuran and 5 cm³ of distilled water. The organic phase is separated out after settling the phases and is washed with 10 cm³ of distilled water and then with 10 cm³ of saturated aqueous sodium chloride solution. The organic phase is separated out after settling the phases, dried over magnesium sulfate, filtered and concentrated to
10 dryness under reduced pressure (2 kPa; 50°C). The residue obtained is purified by chromatography under an argon pressure of 50 kPa, on a column of silica gel (particle size 40-60 µm; diameter 1.5 cm), eluting with a cyclohexane/ethyl acetate mixture (50/50 by volume). The fractions containing the expected product are combined and then evaporated under reduced pressure (2 kPa; 40°C); after drying (90 Pa; 40°C),
15 100 mg of 6,7-difluoro-1H-indazole-3-amine are obtained in the form of a white solid melting at 183°C.

¹H NMR spectrum (300 MHz, (CD₃)₂SO d₆, δ in ppm) : 5.57 (unresolved complex: 2H) ; 6.93 (mt : 1H) ; 7.52 (ddd, J = 8.5 - 4.5 and 1 Hz : 1H) ; 12.01 (unresolved complex: 1H).

20 N-(6,7-Difluoro-1H-indazol-3-yl)butanamide:

0.61 cm³ of butyryl chloride is added to 1 g of 6,7-difluoro-1H-indazole-3-amine described above, in 15 cm³ of pyridine, after having cooled to about 3°C, and the mixture is then left at ambient temperature for 76 hours. The reaction medium is concentrated under reduced pressure (2 kPa ; 40°C) and the residue is taken up in
25 25 cm³ of ethyl acetate and 25 cm³ of water. The organic phase is washed with 25 cm³ of distilled water and then with 25 cm³ of saturated aqueous sodium chloride solution. After drying over magnesium sulfate, filtering and concentrating under reduced pressure (2 kPa ; 40°C), the residue obtained is purified by chromatography under an argon pressure of 50 kPa, on a column of silica gel (particle size 40-60 µm;

diameter 3 cm), eluting with a dichloromethane/methanol mixture (98/2 by volume). The fractions containing the expected product are combined and then evaporated under reduced pressure (2 kPa; 40°C); after drying (90 Pa; 40°C), 596 mg of N-(6,7-difluoro-1H-indazol-3-yl)butanamide are obtained in the form of a white solid melting at 191°C.

¹H NMR spectrum (300 MHz, (CD₃)₂SO d₆, δ in ppm) : 0.97 (t, J = 7.5 Hz : 3H); 1.67 (mt : 2H); 2.40 (t, J = 7 Hz : 2H); 7.10 (mt : 1H); 7.63 (broad dd, J = 9 and 4.5 Hz : 1H); 10.47 (broad unresolved complex: 1H); 13.35 (broad unresolved complex: 1H).

N-[6,7-Difluoro-1-[[2-(trimethylsilyl)ethoxy]methyl]-1H-indazol-3-yl]butanamide

10 A solution of 1.1 g of N-(6,7-difluoro-1H-indazol-3-yl)butanamide prepared above, in 180 cm³ of dimethylformamide, is added dropwise over 3 hours to 1.65 g of sodium hydride at 60% in oil, in 50 cm³ of dimethylformamide. The reaction medium is concentrated to dryness under reduced pressure and taken up in 250 cm³ of ethyl acetate and 200 cm³ of water; the organic phase is separated out after settling of the phases, washed with 150 cm³ of water, dried over magnesium sulfate, filtered and concentrated to dryness under reduced pressure (2 kPa; 50°C). The crude product is purified by chromatography under an argon pressure of 50 kPa, on a column of silica gel (particle size 40-60 μm; diameter 6 cm), eluting with a cyclohexane/ethyl acetate mixture (80/20 by volume). The fractions containing the expected product are combined and evaporated under reduced pressure (2 kPa; 50°C) to give 7.3 g of N-[6,7-difluoro-1-[[2-(trimethylsilyl)ethoxy]methyl]-1H-indazol-3-yl]butanamide in the form of a yellow oil.

¹H NMR spectrum (300 MHz, (CD₃)₂SO d₆, δ in ppm) : - 0.09 (s : 9H); 0.82 (t, J = 8 Hz : 2H); 0.96 (t, J = 7.5 Hz : 3H); 1.67 (mt : 2H); 2.41 (t, J = 7 Hz : 2H); 3.56 (t, J = 8 Hz : 2H); 5.66 (s : 2H); 7.22 (ddd, J = 11 - 9 and 7 Hz : 1H); 7.69 (broad dd, J = 9 and 4.5 Hz : 1H); 10.60 (unresolved complex : 1H).

Mass spectrum : M = 369

N-[5-Bromo-6,7-difluoro-1-[[2-(trimethylsilyl)ethoxy]methyl]-1H-indazol-3-yl]-butanamide

0.87 cm³ of pyridine is added to 1 g of N-[6,7-difluoro-1-[[2-(trimethylsilyl)ethoxy]methyl]-1H-indazol-3-yl]butanamide described above in 30 cm³ of chloroform, followed by addition of 0.56 cm³ of bromine, and the mixture is refluxed overnight. 50 cm³ of dichloromethane and 50 cm³ of aqueous 10% sodium thiosulfate solution are added to the reaction medium. After stirring for 10 minutes, the insoluble material is removed by filtration on a sinter funnel and the organic phase is washed with 50 cm³ of water and with 50 cm³ of saturated sodium chloride solution. The organic phase is separated out by settling of the phases, dried over magnesium sulfate, filtered and concentrated to dryness under reduced pressure (2 kPa ; 45°C). The crude product, 1.1 g, is purified by chromatography under an argon pressure of 50 kPa, on a column of silica gel (particle size 40-60 µm ; diameter 3 cm), eluting with a cyclohexane/ethyl acetate mixture (90/10 by volume). The fractions containing the expected product are combined and evaporated under reduced pressure (2 kPa ; 50°C). After drying (90 Pa ; 45°C), 230 mg of N-[5-bromo-6,7-difluoro-1-[[2-(trimethylsilyl)ethoxy]methyl]-1H-indazol-3-yl]butanamide are obtained in the form of a colorless oil.

¹H NMR spectrum (300 MHz, (CD₃)₂SO d₆, δ in ppm) : - 0.08 (s : 9H) ; 0.82 (t, J = 8 Hz : 2H) ; 0.96 (t, J = 7.5 Hz : 3H) ; 1.67 (mt : 2H) ; 2.42 (t, J = 7 Hz : 2H) ; 3.55 (t, J = 8 Hz : 2H) ; 5.66 (s : 2H) ; 8.08 (dd, J = 6 and 2 Hz : 1H) ; 10.72 (unresolved complex : 1H).

Mass spectrum: M = 447

N-[6,7-Difluoro-5-phenyl-1-[[2-(trimethylsilyl)ethoxy]methyl]-1H-indazol-3-yl]-butanamide

469 mg of phenylboronic acid, 760 mg of sodium carbonate in 30 cm³ of water and 379 mg of tetrakis(triphenylphosphine)palladium are added to 1.15 g of N-[5-bromo-6,7-difluoro-1-[[2-(trimethylsilyl)ethoxy]methyl]-1H-indazol-3-yl]butanamide prepared above, in 150 cm³ of dioxane, and the mixture is refluxed for 4 hours. The reaction medium is diluted with 100 cm³ of ethyl acetate and 75 cm³ of water and is filtered through a sinter funnel packed with Celite. The organic phase is separated out after settling of the phases, washed with 75 cm³ of water and with 75 cm³ of saturated sodium chloride solution, dried over magnesium sulfate, filtered and concentrated to

dryness under reduced pressure (2 kPa; 50°C) to give 2 g of crude product in the form of a black oil. The crude product is purified by chromatography under an argon pressure of 50 kPa, on a column of silica gel (particle size 40-60 μm; diameter 3.5 cm), eluting with a cyclohexane/ethyl acetate mixture (85/15 by volume). The fractions containing the expected product are combined, evaporated under reduced pressure (2 kPa; 50°C) and dried (90 Pa, 45°C) to give 1.1 g of N-[6,7-difluoro-5-phenyl-1-[[2-(trimethylsilyl)ethoxy]methyl]-1H-indazol-3-yl]butanamide in the form of a yellow oil.

¹H NMR spectrum (300 MHz, (CD₃)₂SO d₆, δ in ppm) : - 0.05 (s : 9H) ; 0.84 (t, J = 8 Hz : 2H) ; 0.95 (t, J = 7.5 Hz : 3H) ; 1.66 (mt : 2H) ; 2.43 (t, J = 7 Hz : 2H) ; 3.59 (t, J = 8 Hz : 2H) ; 5.69 (s : 2H) ; from 7.40 to 7.65 (mt : 5H) ; 7.82 (broad d, J = 7 Hz : 1H) ; 10.64 (unresolved complex : 1H).

Mass spectrum: M = 445

N-[6,7-Difluoro-5-phenyl-1-[[2-(trimethylsilyl)ethoxy]methyl]-1H-indazole-3-amine

1.1 cm³ of ethanolamine and then 1.50 g of potassium carbonate are added to 1.6 g of N-[6,7-difluoro-5-phenyl-1-[[2-(trimethylsilyl)ethoxy]methyl]-1H-indazol-3-yl]butanamide described above, in 50 cm³ of dimethylformamide, and the mixture is refluxed for one week. The reaction medium is concentrated to dryness under reduced pressure and taken up in 150 cm³ of ethyl acetate and 75 cm³ of water. The organic phase is separated out after settling of the phases and washed successively with twice 75 cm³ of water and 50 cm³ of brine. The organic phase is dried over magnesium sulfate, filtered and then concentrated to dryness under reduced pressure (2 kPa ; 50°C). The crude oil obtained is purified by chromatography under an argon pressure of 50 kPa, on a column of silica gel (particle size 40-60 μm; diameter 4 cm), eluting with a cyclohexane/ethyl acetate mixture (80/20 by volume). The fractions containing the expected product are combined and evaporated under reduced pressure (2 kPa ; 50°C). After drying (90 Pa ; 45°C), 0.32 g of 6,7-difluoro-5-phenyl-1-[[2-(trimethylsilyl)ethoxy]methyl]-1H-indazole-3-amine is obtained.

6,7-Difluoro-5-phenyl-1H-indazole-3-amine :

1.1 ml of 2N HCl are added to 661 mg of 6,7-difluoro-5-phenyl-1-[[2-(trimethylsilyl)ethoxy]methyl]-1H-indazole-3-amine in 15 ml of methanol. The reaction is subjected to microwaves for 3 minutes at 140°C. After hydrolysis with saturated KH_2PO_4 solution and extraction with methylene chloride, the solvents are evaporated off and the residue is chromatographed on silica (methylene chloride/ethyl acetate) to give 314 mg of 6,7-difluoro-5-phenyl-1H-indazole-3-amine.

Example 1: Piperidine-1-carboxylic acid (6,7-difluoro-5-phenyl-1H-indazol-3-yl)-amide

10 Step 1

131 μl of pyridine and 154 μl of ethyl chloroformate are successively added to 387.8 mg of (6,7-difluoro-5-phenyl-1-[[2-(trimethylsilyl)ethoxy]methyl]-1H-indazole-3-amine compound in 8 ml of methylene chloride. After 75 minutes, the reaction is complete. After hydrolysis, extraction and evaporation, 840 mg of crude ethyl (6,7-difluoro-5-phenyl-1H-indazol-3-yl)carbamate are obtained.

Step 2

184 mg of piperidine are added to 161 mg of crude ethyl (6,7-difluoro-5-phenyl-1H-indazol-3-yl)carbamate in 2.5 ml of trifluorotoluene and the reaction is performed under microwaves for 20 minutes at 200°C. After purification by preparative LC/MS (acetonitrile/pH 9 buffer), 80 mg of piperidine-1-carboxylic acid (6,7-difluoro-5-phenyl-1-[[2-(trimethylsilyl)ethoxy]methyl]-1H-indazol-3-yl)amide are obtained.

Step 3

80 mg of piperidine-1-carboxylic acid (6,7-difluoro-5-phenyl-1-[[2-(trimethylsilyl)ethoxy]methyl]-1H-indazol-3-yl)amide in 2.5 ml of methanol are treated with 0.82 ml of 2N HCl for 1 hour at reflux. After evaporation and purification by preparative LC/MS (acetonitrile/pH 9 buffer), 11 mg of piperidine-1-carboxylic acid (6,7-difluoro-5-phenyl-1H-indazol-3-yl)amide are obtained.

Mass spectrum: retention time 3.99; 357 = $[\text{M}+\text{H}]^+$

^1H NMR spectrum (300 MHz, (DMSO- d_6 , δ in ppm) : 1.50 (m, 4H) ; 1.58 (m, 2H) ; 3.45 (m, 4H) ; 7.42 (m, 1H) ; 7.51 (m, 5H) ; 9.16 (s, 1H) ; 13.20 (bs, 1H)

Example 2 : Pyrrolidine-1-carboxylic acid (6,7-difluoro-5-phenyl-1H-indazol-3-yl)-amide

5 Step 1

154 mg of pyrrolidine are added to 161 mg of ethyl (6,7-difluoro-5-phenyl-1H-indazol-3-yl)carbamate in 2.5 ml of trifluorotoluene, and the reaction is performed under microwaves for 20 minutes at 200°C. The product is purified on a column of silica to give 75 mg of pyrrolidine-1-carboxylic acid (6,7-difluoro-5-phenyl-1-[[2-

10 (trimethylsilyl)ethoxy]methyl]-1H-indazol-3-yl)amide.

Step 2

75 mg of pyrrolidine-1-carboxylic acid (6,7-difluoro-5-phenyl-1-[[2-(trimethylsilyl)ethoxy]methyl]-1H-indazol-3-yl)amide in 3 ml of methanol are treated with 0.82 ml of 2N HCl for 1 hour at reflux. After evaporation and

15 purification by preparative LC/MS (acetonitrile/pH 9 buffer), 36 mg of pyrrolidine-1-carboxylic acid (6,7-difluoro-5-phenyl-1H-indazol-3-yl)amide are obtained.

Mass spectrum : retention time 3.72 minutes; 343 = $[\text{M}+\text{H}]^+$

^1H NMR spectrum (300 MHz, (DMSO- d_6 , δ in ppm) : 1.86 (m, 4H) ; 3.40 (m, 4H) ; 7.42 (m, 1H) ; from 7.45 to 7.54 (m, 4H) ; 7.63 (bd, $J=7$ Hz, 1H) ; 8.84 (s, 1H) ; 13.20

20 (bs, 1H)

Example 3 : performed according to Example 2, starting with 3-(4-methylpiperazin-1-yl)propylamine, to give 1-(6,7-difluoro-5-phenyl-1H-indazol-3-yl)-3-[3-(4-methylpiperazin-1-yl)propyl]urea.

^1H NMR spectrum (300 MHz, (DMSO- d_6 , δ in ppm) : 1.92 (m, 2H) ; 2.82 (s, 3H) ;

25 from 3.01 to 3.75 (m, partially masked, 12 H) ; 7.43 (m, 1H) ; from 7.47 to 7.56 (m, 4H) ; 7.71 (t, $J=7$ Hz, 1H) ; 8.05 (dd, $J=1.5 - 7$ Hz, 1H) ; 9.61 (s, 1H)

Mass spectrum : retention time 2.57 minutes; 429 = $[\text{M}+\text{H}]^+$

The pharmaceutical compositions according to the invention are composed of a compound of formula (I) or a salt of such a compound, in the pure state or in the form of a composition in which it is combined with any other pharmaceutically compatible product, which can be inert or physiologically active. The medicaments according to
5 the invention can be employed orally, parenterally, rectally or topically.

Use may be made, as solid compositions for oral administration, tablets, pills, powders (of hard gelatin capsules, cachets) or granules. In these compositions, the active principle according to the invention is mixed with one or more inert diluents,
10 such as starch, cellulose, sucrose, lactose or silica, under an argon stream. These compositions can also comprise substances other than the diluents, for example one or more lubricants, such as magnesium stearate or talc, a colorant, a coating (dragees) or a glaze.

15 Use may be made, as liquid compositions for oral administration, of pharmaceutically acceptable solutions, suspensions, emulsions, syrups and elixirs comprising inert diluents, such as water, ethanol, glycerol, vegetable oils or liquid paraffin. These compositions can comprise substances other than the diluents, for example wetting, sweetening, thickening, flavoring or stabilizing products.

20

The sterile compositions for parenteral administration can preferably be solutions in aqueous or nonaqueous form, suspensions or emulsions. Use may be made, as solvent or vehicle, of water, propylene glycol, a polyethylene glycol, vegetable oils, in particular olive oil, injectable organic esters, for example ethyl oleate, or other
25 suitable organic solvents. These compositions can also comprise adjuvants, in particular wetting, isotonicizing, emulsifying, dispersing and stabilizing agents. Sterilization can be carried out in several ways, for example by aseptic filtration, by incorporating sterilizing agents in the composition, by irradiation or by heating. They can also be prepared in the form of sterile solid compositions which can be dissolved
30 at the time of use in sterile water or any other injectable sterile medium.

The compositions for rectal administration are suppositories or rectal capsules which comprise, in addition to the active product, excipients such as cocoa butter, semisynthetic glycerides or polyethylene glycols.

5 The compositions for topical administration can be, for example, creams, lotions, eye drops, mouthwashes, nose drops or aerosols.

The subject matter of the invention is the aminoindazole compounds of formula (I) and their pharmaceutically acceptable salts and their use in the preparation of pharmaceutical compositions intended to prevent and treat diseases which result from an abnormal activity of kinases, such as, for example, those involved in
10 neurodegenerative diseases, Alzheimer's disease, Parkinson's disease, frontoparietal dementia, corticobasal degeneration, Pick's disease, strokes, cranial and spinal traumas and peripheral neuropathies, obesity, metabolic diseases, type II diabetes, essential hypertension, atherosclerotic cardiovascular diseases, polycystic ovaries syndrome, syndrome X, immunodeficiency and cancer.

15 Mention may be made, as abnormal kinase activity, of, for example, that of PI3K, AkT or GSK3beta, of CDKs, and the like.

In human therapy, the compounds according to the invention are of particular use in the treatment and/or prevention of neurodegenerative diseases, Alzheimer's disease, Parkinson's disease, frontoparietal dementia, corticobasal degeneration, Pick's
20 disease, strokes, cranial and spinal traumas and peripheral neuropathies, obesity, metabolic diseases, type II diabetes, essential hypertension, atherosclerotic cardiovascular diseases, polycystic ovaries syndrome, syndrome X, immunodeficiency and cancer.

25 The doses depend on the desired effect, on the duration of the treatment and on the administration route used; they are generally between 5 mg and 1000 mg per day orally for an adult with unit doses ranging from 1 mg to 250 mg of active substance.

Generally, the doctor will determine the appropriate dosage according to the age, weight and all the other factors specific to the subject to be treated.

The following examples illustrate compositions according to the invention:

5

EXAMPLE A

Hard gelatin capsules, with doses of 50 mg of active product, having the following composition are prepared according to the usual technique:

	- Compound of formula (I)	50 mg
10	- Cellulose	18 mg
	- Lactose	55 mg
	- Colloidal silica	1 mg
	- Sodium carboxymethylstarch.....	10 mg
	- Talc.....	10 mg
15	- Magnesium stearate	1 mg

EXAMPLE B

Tablets, with doses of 50 mg of active product, having the following composition are prepared according to the usual technique:

20	- Compound of formula (I)	50 mg
	- Lactose	104 mg
	- Cellulose	40 mg
	- Polyvidone	10 mg
	- Sodium carboxymethylstarch	22 mg
25	- Talc	10 mg
	- Magnesium stearate	2 mg
	- Colloidal silica	2 mg
	- Mixture of hydroxymethylcellulose, glycerol and titanium oxide (72/3.5/24.5) q.s. for 1	
30	coated tablet completed to	245 mg

EXAMPLE C

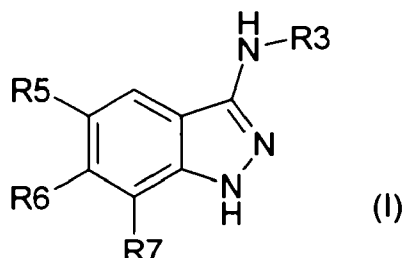
An injectable solution comprising 10 mg of active product having the following composition is prepared:

	- Compound of formula (I)	10 mg
5	- Benzoic acid	80 mg
	- Benzyl alcohol	0.06 ml
	- Sodium benzoate	80 mg
	- 95% Ethanol.....	0.4 ml
	- Sodium hydroxide	24 mg
10	- Propylene glycol	1.6 ml
	- Water	q.s. for 4 ml

The present invention also relates to the method for the prevention and treatment of diseases in which a phosphorylation of the tau protein is involved by administration of a compound of formula (I) and its pharmaceutically acceptable salts.

CLAIMS

1. A compound of formula (I):



in which

5 R3 is a (1-6C)alkyl, aryl, aryl(1-6C)alkyl, heteroaryl, heteroaryl(1-6C)alkyl, aryl or heteroaryl fused to a (1-10C) cycloalkyl, heterocycle, heterocycloalkyl, cycloalkyl, adamantyl, polycycloalkyl, alkenyl, alkynyl, CONR1R2, CSNR1R2, COOR1, SO₂R1, C(=NH)R1 or C(=NH)NR1 radical; these radicals optionally being substituted by 1 or more substituents chosen from halogen, CN, NO₂, NH₂, OH, OR1, COOH, C(O)OR1, -O-C(O)R1, NR1R2, NHC(O)R1, C(O)NR1R2, SR1, S(O)R1, SO₂R1, NHSO₂R1, SO₂NR1R2, C(S)NR1R2, NHC(S)R1, -O-SO₂R1, -SO₂-O-R1, aryl, heteroaryl, heterocycle, formyl, trifluoromethyl, trifluoromethylsulfanyl, trifluoromethoxy or (1-6C)alkyl;

R5, R6 and R7 are, independently of one another, chosen from the following radicals:
 15 halogen, CN, NO₂, NH₂, OH, COOH, C(O)OR8, -O-C(O)R8, NR8R9, NHC(O)R8, C(O)NR8R9, NHC(S)R8, C(S)NR8R9, SR8, S(O)R8, SO₂R8, NHSO₂R8, SO₂NR8R9, -O-SO₂R8, -SO₂-O-R8, trifluoromethyl, trifluoromethoxy, (1-6C)alkyl, (1-6C)alkoxy, aryl, aryl(1-6C)alkyl, heteroaryl, heteroaryl(1-6C)alkyl, heterocycle, cycloalkyl, alkenyl, alkynyl, adamantyl or polycycloalkyl; these radicals optionally being substituted by 1 or more substituents chosen from halogen, CN, NO₂, NH₂, OH, OR10, COOH, C(O)OR10, -O-C(O)R10, NR10R11, NHC(O)R10, C(O)NR10R11, NHC(S)R10, C(S)NR10R11, SR10, S(O)R10, SO₂R10, NHSO₂R10, SO₂NR10R11, -O-SO₂R10, -SO₂-O-R10, aryl, heteroaryl, formyl, trifluoromethyl, trifluoromethoxy or (1-6C)alkyl;

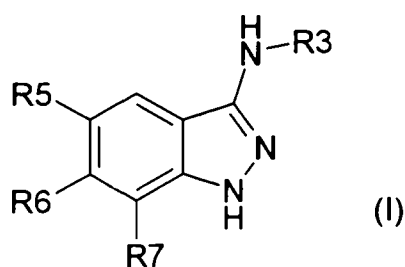
R1, R2, R8, R9, R10 and R11 are, independently of one another, a hydrogen, (1-6C)alkyl, aryl, alkenyl, alkynyl, heteroaryl, themselves optionally being substituted by 1 or more substituents chosen from halogen, (1-6C)alkyl, (1-6C)alkoxy, CN, NO₂, NH₂, OH, COOH, COOalkyl, CONH₂, formyl, trifluoromethyl, trifluoromethoxy;

- 5 R1 and R2 or R8 and R9 or R10 and R11 can form a 5- or 6-membered ring which may or may not have a heteroatom, such as O, S or N;

and, when R3 is a 6-membered nitrogenous heteroaryl or a thiazolyl or an imidazolyl or an oxazolyl, then at least one of the R5 and R6 groups is an aryl which is optionally substituted by 1 or more substituents chosen from halogen, CN, NO₂, NH₂, OH, OR₁₀, COOH, C(O)OR₁₀, -O-C(O)R₁₀, NR₁₀R₁₁, NHC(O)R₁₀, C(O)NR₁₀R₁₁, NHC(S)R₁₀, C(S)NR₁₀R₁₁, SR₁₀, S(O)R₁₀, SO₂R₁₀, NHSO₂R₁₀, SO₂NR₁₀R₁₁, -O-SO₂R₁₀, -SO₂-O-R₁₀, aryl, heteroaryl, formyl, trifluoromethyl, trifluoromethoxy or (1-6C)alkyl;

its racemates, enantiomers or diastereoisomers and their mixtures, its tautomers and its pharmaceutically acceptable salts.

2. A compound of formula (I):



in which

R3 is a (1-6C)alkyl, aryl, aryl(1-6C)alkyl, heteroaryl, heteroaryl(1-6C)alkyl, aryl or heteroaryl fused to a (1-10C) cycloalkyl, heterocycle, heterocycloalkyl, cycloalkyl, adamantyl, polycycloalkyl, alkenyl, alkynyl, CONR₁R₂, CSNR₁R₂, COOR₁, SO₂R₁, C(=NH)R₁ or C(=NH)NR₁ radical; these radicals optionally being substituted by 1 or more substituents chosen from halogen, CN, NO₂, NH₂, OH, OR₁, COOH, C(O)OR₁, -O-C(O)R₁, NR₁R₂, NHC(O)R₁, C(O)NR₁R₂, SR₁, S(O)R₁, SO₂R₁, NHSO₂R₁, SO₂NR₁R₂, C(S)NR₁R₂, NHC(S)R₁, -O-SO₂R₁, -SO₂-O-R₁,

aryl, heteroaryl, heterocycle, formyl, trifluoromethyl, trifluoromethylsulfanyl, trifluoromethoxy or (1-6C)alkyl;

R5 and R6 are chosen, independently of one another, from the following radicals: halogen, CN, NO₂, NH₂, OH, COOH, C(O)OR₈, -O-C(O)R₈, NR₈R₉, NHC(O)R₈,
 5 C(O)NR₈R₉, NHC(S)R₈, C(S)NR₈R₉, SR₈, S(O)R₈, SO₂R₈, NHSO₂R₈, SO₂NR₈R₉, -O-SO₂R₈, -SO₂-O-R₈, trifluoromethyl, trifluoromethoxy, (1-6C)alkyl, (1-6C)alkoxy, aryl, aryl(1-6C)alkyl, heteroaryl, heteroaryl(1-6C)alkyl, heterocycle, cycloalkyl, alkenyl, alkynyl, adamantyl, polycycloalkyls; these radicals optionally being substituted by 1 or more substituents chosen from halogen, CN, NO₂, NH₂, OH,
 10 OR₁₀, COOH, C(O)OR₁₀, -O-C(O)R₁₀, NR₁₀R₁₁, NHC(O)R₁₀, C(O)NR₁₀R₁₁, NHC(S)R₁₀, C(S)NR₁₀R₁₁, SR₁₀, S(O)R₁₀, SO₂R₁₀, NHSO₂R₁₀, SO₂NR₁₀R₁₁, -O-SO₂R₁₀, -SO₂-O-R₁₀, aryl, heteroaryl, formyl, trifluoromethyl, trifluoromethoxy or (1-6C)alkyl;

R7 is a halogen, methyl, cyclopropyl, CN, OH, methoxy, trifluoromethyl, ethylenyl, acetylenyl, trifluoromethoxy, NO₂, NH₂ or NMe₂

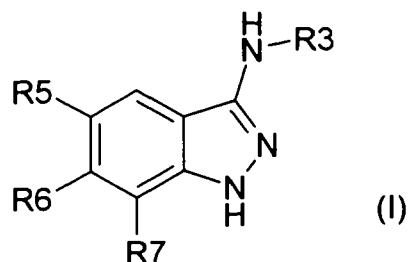
R1, R2, R8, R9, R10 and R11 are, independently of one another, a hydrogen, (1-6C)alkyl, aryl, alkenyl, alkynyl or heteroaryl, themselves optionally being substituted by 1 or more substituents chosen from halogen, (1-6C)alkyl, (1-6C)alkoxy, CN, NO₂, NH₂, OH, COOH, COOalkyl, CONH₂, formyl, trifluoromethyl or trifluoromethoxy,

20 R1 and R2 or R8 and R9 or R10 and R11 can form a 5- or 6-membered ring which may or may not have a heteroatom, such as O, S or N;

and, when R3 is a 6-membered nitrogenous heteroaryl or a thiazolyl or an imidazolyl or an oxazolyl, then at least one of the R5 and R6 groups is an aryl which is optionally substituted by 1 or more substituents chosen from halogen, CN, NO₂, NH₂,
 25 OH, OR₁₀, COOH, C(O)OR₁₀, -O-C(O)R₁₀, NR₁₀R₁₁, NHC(O)R₁₀, C(O)NR₁₀R₁₁, NHC(S)R₁₀, C(S)NR₁₀R₁₁, SR₁₀, S(O)R₁₀, SO₂R₁₀, NHSO₂R₁₀, SO₂NR₁₀R₁₁, -O-SO₂R₁₀, -SO₂-O-R₁₀, aryl, heteroaryl, formyl, trifluoromethyl, trifluoromethoxy or (1-6C)alkyl;

its racemates, enantiomers or diastereoisomers and their mixtures, its tautomers and its pharmaceutically acceptable salts.

3. A compound of formula (I):



5 in which

R3 is a (1-6C)alkyl, aryl, aryl(1-6C)alkyl, heteroaryl, heteroaryl(1-6C)alkyl, aryl or heteroaryl fused to a (1-10C) cycloalkyl, heterocycle, heterocycloalkyl, cycloalkyl, adamantyl, polycycloalkyl, alkenyl, alkynyl, CONR1R2, CSNR1R2, COOR1, SO₂R1 or C(=NH)NR1 radical; these radicals optionally being substituted by 1 or more substituents chosen from halogen, CN, NO₂, NH₂, OH, OR1, COOH, C(O)OR1, -O-C(O)R1, NR1R2, NHC(O)R1, C(O)NR1R2, SR1, S(O)R1, SO₂R1, NHSO₂R1, SO₂NR1R2, C(S)NR1R2, NHC(S)R1, -O-SO₂R1, -SO₂-O-R1, aryl, heteroaryl, formyl, oxo, trifluoromethyl, trifluoromethylsulfanyl, trifluoromethoxy or (1-6C)alkyl;

15 R5 is an aryl

R6 and R7 are, independently of one another, a halogen, methyl, cyclopropyl, CN, OH, methoxy, trifluoromethyl, ethylenyl, acetylenyl, trifluoromethoxy, NO₂, NH₂ or NMe₂

R1 and R2 are, independently of one another, a hydrogen, (1-6C)alkyl, aryl, alkenyl, alkynyl or heteroaryl, themselves optionally being substituted by 1 or more substituents chosen from halogen, (1-6C)alkyl, (1-6C)alkoxy, CN, NO₂, NH₂, OH, COOH, COOalkyl, CONH₂, formyl, oxo, trifluoromethyl or trifluoromethoxy;

R1 and R2 can form a 5- or 6-membered ring which may or may not have a heteroatom, such as O, S or N;

its racemates, enantiomers or diastereoisomers and their mixtures, its tautomers and its pharmaceutically acceptable salts.

4. The compound as claimed in claim 1, which is chosen from:

5 N-(bicyclo[2.2.1]hept-5-en-2-ylmethyl)-6-chloro-7-fluoro-5-phenyl-1H-indazol-3-amine

6-chloro-7-fluoro-N-(3,3-dimethylbutyl)-5-phenyl-1H-indazol-3-amine

6-chloro-7-fluoro-N-(3-phenylpropyl)-5-phenyl-1H-indazol-3-amine

6-chloro-7-fluoro-N-(cyclopropylmethyl)-5-phenyl-1H-indazol-3-amine

6-chloro-7-fluoro-N-(cyclopentylmethyl)-5-phenyl-1H-indazol-3-amine

10 6-chloro-7-fluoro-N-[3-(methylthio)propyl]-5-phenyl-1H-indazol-3-amine

6-chloro-7-fluoro-N-(phenylethyl)-5-phenyl-1H-indazol-3-amine

6-chloro-7-fluoro-N-(cyclohexylmethyl)-5-phenyl-1H-indazol-3-amine

6-chloro-7-fluoro-N-propyl-5-phenyl-1H-indazol-3-amine

15 6-chloro-7-fluoro-N-(2,2,3,3,4,4,4-heptafluorobutyl)-5-phenyl-1H-indazol-3-amine hydrate

6-chloro-7-fluoro-N-(4,4,4-trifluorobutyl)-5-phenyl-1H-indazol-3-amine

6-chloro-7-fluoro-N-[(4-methoxyphenyl)methyl]-5-phenyl-1H-indazol-3-amine

6-chloro-7-fluoro-N-(phenylmethyl)-5-phenyl-1H-indazol-3-amine

6-chloro-7-fluoro-N-[(4-cyanophenyl)methyl]-5-phenyl-1H-indazol-3-amine

20 N-[(4-chlorophenyl)methyl]-6-chloro-7-fluoro-5-phenyl-1H-indazol-3-amine

6-chloro-7-fluoro-N-[(3-methoxyphenyl)methyl]-5-phenyl-1H-indazol-3-amine

6-chloro-7-fluoro-N-[[4-(trifluoromethoxy)phenyl]methyl]-5-phenyl-1H-indazol-3-amine

N-[4-[[[6-chloro-7-fluoro-5-phenyl-1H-indazol-3-yl]amino]methyl]phenyl]acetamide

25 6-chloro-7-fluoro-N-[(3,5-dichlorophenyl)methyl]-5-phenyl-1H-indazol-3-amine

- 6-chloro-7-fluoro-5-phenyl-N-[[4-(trifluoromethyl)phenyl]methyl]-1H-indazol-3-amine
- 6-chloro-7-fluoro-N-[(4-fluorophenyl)methyl]-5-phenyl-1H-indazol-3-amine
- 6-chloro-7-fluoro-N-[3-(4-methylphenoxy)phenylmethyl]-5-phenyl-1H-indazol-3-amine
- 5
- N-(2,2,3,3,4,4,4-heptafluorobutyl)-6-chloro-7-fluoro-5-phenyl-1H-indazol-3-amine
- 6-chloro-7-fluoro-5-phenyl-N-[[3,5-bis(trifluoromethyl)phenyl]methyl]-1H-indazol-3-amine
- 6-chloro-7-fluoro-5-phenyl-N-[[3-(trifluoromethyl)phenyl]methyl]-1H-indazol-3-amine
- 10
- 6-chloro-7-fluoro-N-[(6-methoxy-2-naphthyl)methyl]-5-phenyl-1H-indazol-3-amine
- 6-chloro-7-fluoro-N-[(pentafluorophenyl)methyl]-5-phenyl-1H-indazol-3-amine
- 6-chloro-7-fluoro-N-[[4-(methylthio)phenyl]methyl]-5-phenyl-1H-indazol-3-amine
- N-[(4-chloro-3-fluorophenyl)methyl]-6-chloro-7-fluoro-5-phenyl-1H-indazol-3-amine
- 15
- 6-chloro-7-fluoro-5-phenyl-N-(3,3,3-trifluoropropyl)-1H-indazol-3-amine
- 6-chloro-7-fluoro-5-phenyl-N-(3-thienylmethyl)-1H-indazol-3-amine
- N-(bicyclo[2.2.1]hept-5-en-2-ylmethyl)-6-chloro-7-fluoro-5-phenyl-1H-indazol-3-amine
- 20
- N-(1,1'-biphenyl-4-ylmethyl)-6-chloro-7-fluoro-5-phenyl-1H-indazol-3-amine
- 6-chloro-7-fluoro-N-[[4-(dimethylamino)phenyl]methyl]-5-phenyl-1H-indazol-3-amine
- N-(2,2'-bithiophen-5-ylmethyl)-6-chloro-7-fluoro-5-phenyl-1H-indazol-3-amine
- 6-chloro-7-fluoro-5-phenyl-N-[[1-(phenylmethyl)-1H-imidazol-2-yl]methyl]-1H-indazol-3-amine
- 25

- 6-chloro-7-fluoro-N-[[1-methyl-1H-imidazol-2-yl]methyl]-5-phenyl-1H-indazol-3-amine
- 6-chloro-7-fluoro-N-[(1-methyl-1H-indol-3-yl)methyl]-5-phenyl-1H-indazol-3-amine
- 6-chloro-7-fluoro-N-[(5-methyl-2-furanyl)methyl]-5-phenyl-1H-indazol-3-amine
- 5 6-chloro-7-fluoro-5-phenyl-N-(1H-pyrrol-2-ylmethyl)-1H-indazol-3-amine
- 6-chloro-7-fluoro-5-phenyl-N-[(1H-imidazol-2-yl)methyl]-1H-indazol-3-amine
- 6-chloro-7-fluoro-5-phenyl-N-[(1H-imidazol-4-yl)methyl]-1H-indazol-3-amine
- 6-chloro-7-fluoro-5-phenyl-N-(1H-pyrazol-3-ylmethyl)-1H-indazol-3-amine
- 6-chloro-7-fluoro-N-[[2-methyl-1H-imidazol-4-yl]methyl]-5-phenyl-1H-indazol-3-amine
- 10 amine
- 6-chloro-7-fluoro-N-[(3,5-dimethyl-1-phenyl-1H-pyrazol-4-yl)methyl]-5-phenyl-1H-indazol-3-amine
- 6-chloro-7-fluoro-5-phenyl-N-[[2-phenyl-1H-imidazol-4-yl]methyl]-1H-indazol-3-amine
- 15 6-chloro-7-fluoro-N-[[5-(4-chlorophenyl)-2-furanyl]methyl]-5-phenyl-1H-indazol-3-amine
- 6-chloro-7-fluoro-5-phenyl-N-[(1-methyl-1H-pyrrol-2-yl)methyl]-1H-indazol-3-amine
- 4-[5-[[[6-chloro-7-fluoro-5-phenyl-1H-indazol-3-yl]amino]methyl]-2-furanyl]-benzenesulfonamide
- 20
- 6-chloro-7-fluoro-5-phenyl-N-(3-thienylmethyl)-1H-indazol-3-amine
- 6-chloro-7-fluoro-5-phenyl-N-[[2-phenyl-1H-imidazol-4-yl]methyl]-1H-indazol-3-amine
- ethyl 2-[[[6-chloro-7-fluoro-5-phenyl-1H-indazol-3-yl]amino]methyl]-5-(methylthio)-1H-imidazole-4-carboxylate
- 25

- 6-chloro-7-fluoro-5-phenyl-N-[[5-[4-(trifluoromethyl)phenyl]-2-furanyl]methyl]-1H-indazol-3-amine
- 6-chloro-7-fluoro-5-phenyl-N-[2-(1-piperidinyl)ethyl]-1H-indazol-3-amine
- 6-chloro-7-fluoro-N-[2-(4-morpholinyl)ethyl]-5-phenyl-1H-indazol-3-amine
- 5 N-(6-chloro-7-fluoro-5-phenyl-1H-indazol-3-yl)-N'-(3,5-dichlorophenyl)urea
- N-(6-chloro-7-fluoro-5-phenyl-1H-indazol-3-yl)-N'-(2-propenyl)urea
- N-(6-chloro-7-fluoro-5-phenyl-1H-indazol-3-yl)-N'-(phenylmethyl)urea
- N-(6-chloro-7-fluoro-5-phenyl-1H-indazol-3-yl)-N'-(4-phenoxyphenyl)urea
- N-(6-chloro-7-fluoro-5-phenyl-1H-indazol-3-yl)-N'-(4-methoxyphenyl)methyl]urea
- 10 N-(6-chloro-7-fluoro-5-phenyl-1H-indazol-3-yl)-N'-[4-(trifluoromethyl)phenyl]urea
- N-(6-chloro-7-fluoro-5-phenyl-1H-indazol-3-yl)-N'-(4-methoxyphenyl)urea
- N-(6-chloro-7-fluoro-5-phenyl-1H-indazol-3-yl)-N'-cyclohexylurea
- N-(6-chloro-7-fluoro-5-phenyl-1H-indazol-3-yl)-N'-propylurea
- N-(6-chloro-7-fluoro-5-phenyl-1H-indazol-3-yl)-N'-(4-chlorophenyl)urea
- 15 N-(6-chloro-7-fluoro-5-phenyl-1H-indazol-3-yl)-N'-(4-fluorophenyl)urea
- N-[6-chloro-7-fluoro-5-phenyl-1H-indazol-3-yl]-N'-(tricyclo[3.3.1.1^{3,7}]dec)-1-ylurea
- N-(6-chloro-7-fluoro-5-phenyl-1H-indazol-3-yl)-N'-(4-methylphenyl)urea
- N-(6-chloro-7-fluoro-5-phenyl-1H-indazol-3-yl)urea
- N-(6-chloro-7-methyl-5-phenyl-1H-indazol-3-yl)urea
- 20 N-(6-chloro-7-cyano-5-phenyl-1H-indazol-3-yl)urea
- N-(6-chloro-7-cyclopropyl-5-phenyl-1H-indazol-3-yl)urea
- N-(6-chloro-7-hydroxy-5-phenyl-1H-indazol-3-yl)urea
- N-(6-chloro-7-methoxy-5-phenyl-1H-indazol-3-yl)urea
- N-(6-chloro-7-trifluoromethyl-5-phenyl-1H-indazol-3-yl)urea

- N-(6-chloro-7-trifluoromethoxy-5-phenyl-1H-indazol-3-yl)urea
- N-(6-chloro-7-nitro-5-phenyl-1H-indazol-3-yl)urea
- N-(6-chloro-7-amino-5-phenyl-1H-indazol-3-yl)urea
- N-(6-chloro-7-dimethylamino-5-phenyl-1H-indazol-3-yl)urea
- 5 N-(6-chloro-7-ethynyl-5-phenyl-1H-indazol-3-yl)urea
- N-[6-chloro-7-fluoro-5-phenyl-1H-indazol-3-yl]-4-methyl-benzenesulfonamide
- N-[6-chloro-7-fluoro-5-phenyl-1H-indazol-3-yl]methanesulfonamide
- N-[6-chloro-7-fluoro-5-phenyl-1H-indazol-3-yl]-2-propanesulfonamide
- N-[6-chloro-7-fluoro-5-phenyl-1H-indazol-3-yl]-2,2,2-trifluoroethanesulfonamide
- 10 N-[6-chloro-7-fluoro-5-phenyl-1H-indazol-3-yl]-2-thiophenesulfonamide
- N-[6-chloro-7-fluoro-5-phenyl-1H-indazol-3-yl]benzenesulfonamide
- N-[6-chloro-7-fluoro-5-phenyl-1H-indazol-3-yl]-4-(trifluoromethyl)benzenesulfonamide
- N-[6-chloro-7-fluoro-5-phenyl-1H-indazol-3-yl]-5-(3-isoxazolyl)-2-thiophenesulfonamide
- 15 N-[6-chloro-7-fluoro-5-phenyl-1H-indazol-3-yl]-4-fluorobenzenesulfonamide
- N-[6-chloro-7-fluoro-5-phenyl-1H-indazol-3-yl]-4-methoxybenzenesulfonamide
- N-[6-chloro-7-fluoro-5-phenyl-1H-indazol-3-yl]benzenemethanesulfonamide
- N-[6-chloro-7-fluoro-5-phenyl-1H-indazol-3-yl]-1-methyl-1H-imidazole-4-sulfonamide
- 20 N-[6-chloro-7-fluoro-5-phenyl-1H-indazol-3-yl]-4-(1,1-dimethylethyl)benzenesulfonamide
- N-[4-[[[(6-chloro-7-fluoro-5-phenyl-1H-indazol-3-yl)amino]sulfonyl]phenyl]-acetamide

- N-[6-chloro-7-fluoro-5-phenyl-1H-indazol-3-yl]-4-methylbenzenemethanesulfonamide
- 6-chloro-7-fluoro-N-(pentafluorophenyl)-5-phenyl-1H-indazol-3-amine
- 6-chloro-7-fluoro-N-(3,4-difluorophenyl)-5-phenyl-1H-indazol-3-amine
- 5 6-chloro-7-fluoro-5-phenyl-N-(2,3,5,6-tetrafluorophenyl)-1H-indazol-3-amine
- 6-chloro-7-fluoro-5-phenyl-N-(2,4,6-trifluorophenyl)-1H-indazol-3-amine
- 6-chloro-7-fluoro-N-(4-fluorophenyl)-5-phenyl-1H-indazol-3-amine
- 6-chloro-7-fluoro-N-[3-(trifluoromethyl)phenyl]-5-phenyl-1H-indazol-3-amine
- 6-chloro-7-fluoro-N-[4-(trifluoromethyl)phenyl]-5-phenyl-1H-indazol-3-amine
- 10 6-chloro-7-fluoro-N-[3-fluoro-5-(trifluoromethyl)phenyl]-5-phenyl-1H-indazol-3-amine
- 6-chloro-7-fluoro-N-(4-nitrophenyl)-5-phenyl-1H-indazol-3-amine
- 6-chloro-7-fluoro-N-(3-nitrophenyl)-5-phenyl-1H-indazol-3-amine
- 6-chloro-7-fluoro-N-(3-methoxyphenyl)-5-phenyl-1H-indazol-3-amine
- 15 6-chloro-7-fluoro-N-(4-methoxyphenyl)-5-phenyl-1H-indazol-3-amine
- 6-chloro-7-fluoro-N,5-diphenyl-1H-indazol-3-amine
- 6-chloro-7-fluoro-N-(1-pyridinyl)-5-phenyl-1H-indazol-3-amine
- 6-chloro-7-fluoro-N-(2-pyridinyl)-5-phenyl-1H-indazol-3-amine
- N-butyl-6-chloro-7-fluoro-5-phenyl-1H-indazol-3-amine
- 20 N-(6-chloro-7-fluoro-5-phenyl-1H-indazol-3-yl)-N'-phenylurea
- N-(6-chloro-7-fluoro-5-phenyl-1H-indazol-3-yl)-3-methoxybenzenesulfonamide
- their racemates, enantiomers or diastereoisomers and their mixtures, their tautomers and their pharmaceutically acceptable salts.
5. The compound as claimed in either of claims 1 and 2, which is chosen from:
- 25 Piperidine-1-carboxylic acid (6,7-difluoro-5-phenyl-1H-indazol-3-yl)amide

Pyrrolidine-1-carboxylic acid (6,7-difluoro-5-phenyl-1H-indazol-3-yl)amide

1-(6,7-Difluoro-5-phenyl-1H-indazol-3-yl)-3-[3-(4-methylpiperazin-1-yl)propyl]urea

its tautomers, and their pharmaceutically acceptable salts.

6. The compound as claimed in any one of claims 1 to 5, used to prepare a
5 medicament.
7. A pharmaceutical composition, which comprises, in a pharmaceutically acceptable medium, a compound defined as claimed in any one of claims 1 to 5.
8. The medicament as claimed in claim 7, which comprises at least one compound defined as claimed in any one of claims 1 to 5 for its therapeutic application in the
10 treatment of diseases in which a phosphorylation of the tau protein is observed.
9. The medicament as claimed in claim 6, which comprises at least one compound defined as claimed in any one of claims 1 to 5 for its therapeutic application in the treatment of neurodegenerative diseases, strokes, cranial and spinal traumas and peripheral neuropathies, obesity, metabolic diseases, type II diabetes, essential
15 hypertension, atherosclerotic cardiovascular diseases, polycystic ovaries syndrome, syndrome X, immunodeficiency and cancer.
10. The medicament as claimed in claim 9, the neurodegenerative disease being either Alzheimer's disease, Parkinson's disease, frontoparietal dementia, corticobasal degeneration or Pick's disease.
- 20 11. A process for the preparation of the compound of formula (I) as defined in claim 1 and for which R₃ is (1-6C)alkyl, aryl(1-6C)alkyl, heteroaryl(1-6C)alkyl, heterocycloalkyl, cycloalkyl or polycycloalkyl, these radicals optionally being substituted by 1 or more substituents chosen from halogen, CN, NO₂, NH₂, OH, OR₁, COOH, C(O)OR₁, -O-C(O)R₁, NR₁R₂, NHC(O)R₁, C(O)NR₁R₂, SR₁, S(O)R₁,
25 SO₂R₁, NHSO₂R₁, SO₂NR₁R₂, C(S)NR₁R₂, NHC(S)R₁, -O-SO₂R₁, -SO₂-O-R₁, aryl, heteroaryl, formyl, oxo, trifluoromethyl, trifluoromethylsulfanyl, trifluoromethoxy or (1-6C)alkyl and R₁, R₂ are, independently of one another, a hydrogen, (1-6C)alkyl, aryl, alkenyl, alkynyl or heteroaryl. themselves optionally being substituted by 1 or more substituents chosen from halogen, (1-6C)alkyl, (1-6C)alkoxy, CN, NO₂, NH₂,

OH, COOH, COOalkyl, CONH₂, formyl, oxo, trifluoromethyl or trifluoromethoxy; from a derivative of formula (I) where R₃ is H, from a derivative of R₁CHO and from sodium triacetoxyborohydride in dichloromethane, and the product obtained is optionally converted to a pharmaceutically acceptable salt.

5 12. A process for the preparation of the compound of formula (I) as defined in claim 1 and for which R₃ is CONR₁R₂ or CSNR₁R₂ and R₁ and R₂ are, independently of one another, a hydrogen, (1-6C)alkyl, aryl, alkenyl, alkynyl or heteroaryl, themselves optionally being substituted by 1 or more substituents chosen from halogen, (1-6C)alkyl, (1-6C)alkoxy, CN, NO₂, NH₂, OH, COOH, COOalkyl, CONH₂, formyl,
10 oxo, trifluoromethyl or trifluoromethoxy, from OCNR₁ and from a derivative of formula (I) where R₃ is H in tetrahydrofuran, and the product obtained is optionally converted to a pharmaceutically acceptable salt.

13. The process for the preparation of the compound of formula (I) as defined in claim 1 and for which R₃ is SO₂R₁ and R₁ is a hydrogen, (1-6C)alkyl, aryl, alkenyl,
15 alkynyl or heteroaryl, themselves optionally being substituted by 1 or more substituents chosen from halogen, (1-6C)alkyl, (1-6C)alkoxy, CN, NO₂, NH₂, OH, COOH, COOalkyl, CONH₂, formyl, oxo, trifluoromethyl or trifluoromethoxy, from a sulfonyl chloride R₁SO₂Cl and from a derivative of formula (I) where R₃ is H and dichloromethane in the presence of a base, and the compound obtained is optionally
20 converted to a pharmaceutically acceptable salt.

14. As an intermediate product,

6,7-difluoro-1H-indazole-3-amine

N-(6,7-difluoro-1H-indazol-3-yl)butanamide:

N-[6,7-difluoro-1-[[2-(trimethylsilyl)ethoxy]methyl]-1H-indazol-3-yl]butanamide

25 N-[5-bromo-6,7-difluoro-1-[[2-(trimethylsilyl)ethoxy]methyl]-1H-indazol-3-yl]-
butanamide

N-[6,7-difluoro-5-phenyl-1-[[2-(trimethylsilyl)ethoxy]methyl]-1H-indazol-3-yl]-
butanamide

6,7-difluoro-5-phenyl-1-[[2-(trimethylsilyl)ethoxy]methyl]-1H-indazol-3-amine 6,7-difluoro-5-phenyl-1H-indazole-3-amine.

15. Use of a compound as claimed in any one of claims 1 to 5 in the manufacture of a preparation for the treatment of diseases in which a phosphorylation of the tau protein is observed.
- 5
16. Use of a compound as claimed in any one of claims 1 to 5 in the manufacture of a preparation for the treatment of neurodegenerative diseases, strokes, cranial and spinal traumas and peripheral neuropathies, obesity, metabolic diseases, type II diabetes, essential hypertension, atherosclerotic cardiovascular diseases, polycystic ovaries syndrome, syndrome X, immunodeficiency and cancer.
- 10
17. Use as claimed in claim 16, the neurodegenerative disease being either Alzheimer's disease, Parkinson's disease, frontoparietal dementia, corticobasal degeneration or Pick's disease.
18. A substance or composition for use in a method for the treatment of diseases in which a phosphorylation of the tau protein is observed, said substance or composition comprising a compound as claimed in any one of claims 1 to 5, and said method comprising administering said substance or composition.
- 15
19. A substance or composition for use in a method for the treatment of neurodegenerative diseases, strokes, cranial and spinal traumas and peripheral neuropathies, obesity, metabolic diseases, type II diabetes, essential hypertension, atherosclerotic cardiovascular diseases, polycystic ovaries syndrome, syndrome X, immunodeficiency and cancer, said substance or composition comprising a compound as claimed in any one of claims 1 to 5, and said method comprising administering said substance or composition.
- 20
20. A substance or composition for use in a method of treatment as claimed in claim 19, the neurodegenerative disease being either Alzheimer's disease, Parkinson's disease, frontoparietal dementia, corticobasal degeneration or Pick's disease.
- 25
21. A compound as claimed in any one of claims 1 to 6 or 14, substantially as herein described and illustrated.

22. A composition as claimed in claim 7, substantially as herein described and illustrated.

23. A medicament as claimed in any one of claims 8 to 10, substantially as herein described and illustrated.

5 24. A process as claimed in any one of claims 11 to 13, substantially as herein described and illustrated.

25. Use as claimed in any one of claims 15 to 17, substantially as herein described and illustrated.

10 26. A substance or composition for use in a method of treatment as claimed in any one of claims 18 to 20, substantially as herein described and illustrated.

27. A new compound, a new composition, a new medicament, a new process for preparing a compound, a new use of a compound as claimed in any one of claims 1 to 5, or a substance or composition for a new use in a method of treatment, substantially as herein described.