two groups selected from the group consisting of alkyl, trihaloalkyl, alkoxy, cyano and cycloalkyl, or phenyl optionally substituted with 1 to 3 groups selected from the group consisting of trihaloalkyl, halogen, alkoxy and cycloalkyl.

[0039] The "alkyl" in pyridyl optionally substituted with one or two alkyls according to R^4 is preferably methyl, ethyl or n-propyl.

[0040] The "trihaloalkyl" in pyridyl optionally substituted with one or two trihaloalkyl~~s~~ according to R^4 is preferably trifluoromethyl.

[0041] The "alkoxy" in pyridyl optionally substituted with one or two alkoxy according to R^4 is preferably methoxy, ethoxy, n-propoxy, n-butoxy are preferable, more preferably ethoxy.

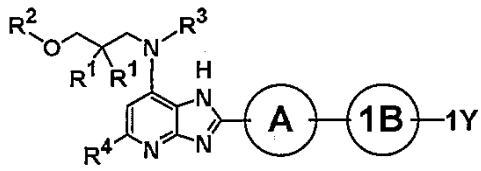
[0042] The "cycloalkyl" in pyridyl optionally substituted with one or two cycloalkyl according to R^4 is preferably cyclopropyl or cyclobutyl, more preferably cyclopropyl.

[0043] The "trihaloalkyl" in phenyl optionally substituted with 1 to 3 trihaloalkyl according to R^4 is preferably trifluoromethyl.

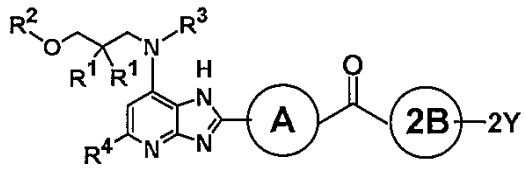
[0044] The "halogen" in phenyl optionally substituted with 1 to 3 halogens according to R^4 is preferably a chlorine atom, a bromine atom or a fluorine atom, more preferably a fluorine atom.

[0045] The "alkoxy" in phenyl optionally substituted with 1 to 3 alkoxy according to R^4 is preferably methoxy, ethoxy, n-propoxy, isopropoxy, n-butoxy, more preferably methoxy and ethoxy.

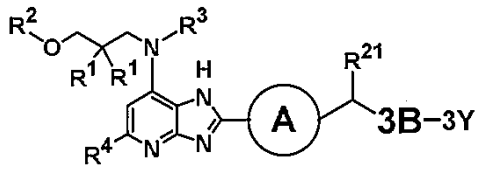
[0046] The "cycloalkyl" optionally substituted with phenyl according to R^4



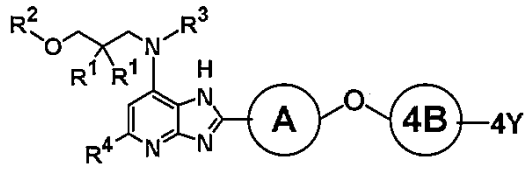
[I]



[II]



[III]



[IV]

wherein R^1, R^2, R^3, R^4, R^{21}, A, B-1, B-2, B-3, B-4, U^1, U^2, CR^{41}, CR^{42}, Y-1, Y-2, Y-3, Y-4, Y-11, Y-12, Y-13, Y-14, Y-15 and Y-16 are as defined above.

In formula [I],

if 1B is a B-1 or B-2, and U^2 is a nitrogen atom, then 1Y is Y-1, Y-2, Y-3, or Y-4,

if 1B is B-1 or B-2, and U^2 is CR^{42}, then U^1 is a nitrogen atom and 1Y is Y-11, Y-12, Y-13, Y-14, Y-15 or Y-16, and

if 1B is B-3 or B-4, then 1Y is a hydrogen atom.

In formula [II],

if 2B is B-1 or B-2, U^1 is a nitrogen atom, and U^2 is a nitrogen atom, then 2Y is Y-1, Y-2, Y-3, or Y-4,

if 2B is B-1 or B-2, U^1 is a nitrogen atom, and U^2 is CR^{42}, then 2Y is Y-11, Y-12, Y-13, Y-14, Y-15 or Y-16, and

if 2B is B-3 or B-4, then 2Y is a hydrogen atom.

In [III],

if 3B is B-1, U^1 is a nitrogen atom, and U^2 is a nitrogen atom, then 3Y is Y-1, Y-2, Y-3 or Y-4,

if 3B is a B-1, U^1 is a nitrogen atom, and U^2 is CR^{42}, then 3Y is Y-11, Y-12, Y-13, Y-14, Y-15, or Y-16.

In [IV],

4B is B-1, U^1 is CR^{41}, U^2 is a nitrogen atom, and 4Y is Y-1, Y-2, Y-3, or Y-4.

[0165] Examples of the alkylating agent to be used include methyl iodide, ethyl iodide, 1-bromobutane, 1-iodobutane, 1-bromo-2-methoxyethane, and the like.

[0166] The amount of the alkylating agent to be used is preferably within the range of 1 to 1.5 molar equivalents to Compound [~~12~~16].

[0167] Examples of the base to be used include sodium hydride, potassium hydride, potassium carbonate, sodium carbonate, cesium carbonate, sodium bicarbonate, sodium methoxide, sodium ethoxide, sodium tert-butoxide, potassium tert-butoxide, DBU, and the like.

[0168] The amount of base to be used is preferably within the range of 1 to 2 molar equivalents to Compound [~~12~~16].

[0169] The solvent used in this step is not limited so long as it does not participate in the reaction, and examples of such solvent include amides such as DMF and DMA; ethers such as THF; nitriles such as acetonitrile; DMSO; or a mixed solvent thereof.

[0170] The reaction temperature can vary depending on the starting material and reagents to be used, and is usually preferably within the range of 0°C to 150°C

[0171] The reaction time can vary depending on the starting material and the reaction temperature to be used, and is usually preferably within the range of 1 hour to 48 hours.

[0172] Step 4
This step affords amine Compound [19] by reducing the nitrile of Compound [18]. This step can be carried out according to a method

wherein A, R^1, R^2, R^3, R^4, R^{31}, R^{32}, m, n, 1Y'c, and 1Yc are as defined above. X represents a hydroxyl group or a fluorine atom.

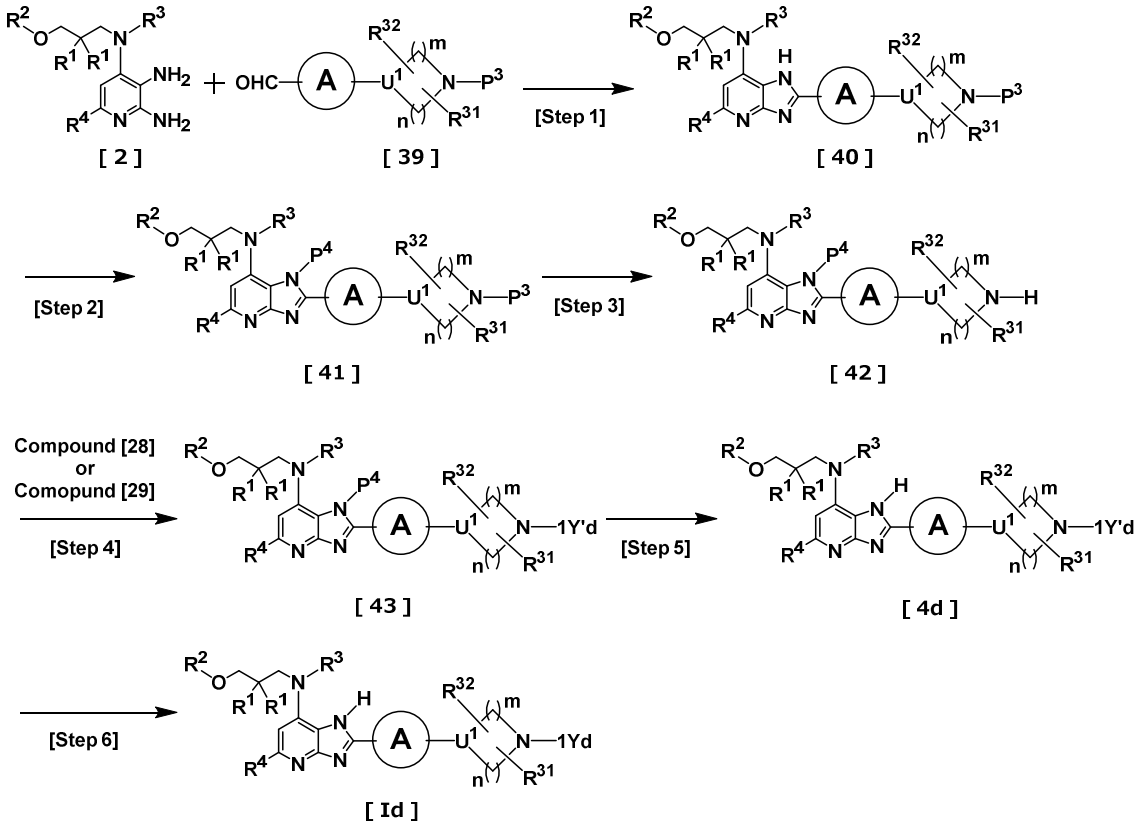
[0219] Step 1

This step affords Compound [4c] by cyclocondensation of Compound [2] with Compound [35] or Compound [38], and the step can be carried out in the similar manner as described in Step 1 of Process 1.

[0220] Step 2

This step affords Compound [Ic] by hydrolyzing Compound [4c]. This step can be carried out in the similar manner as described in Step 2 of Process 1.

[0221] Process 2: Production of Compound [Id]



wherein R^1, R^2, R^3, R^4, R^{31}, R^{32}, U^1, m, n, A are as defined above. 1Yd is Y-1, Y-2, Y-3 or Y-4, and 1Y'd~~1Y'-d~~ is Y'-1, Y'-2, Y'-3, or Y'-4. P^3 and P^4 are a protecting group. P^3 is a protecting group to be

of Process 1.

[0236] Step 3
This step affords Compound [47a] by condensing Compound [46] or a reactive derivative thereof and amine Compound [24a] in the presence of a condensing agent.

[0237] Examples of the reactive derivative of Compound [46] include those commonly used in amide condensation reactions, such as acid halides (e.g., acid chloride, acid bromide), mixed acid anhydrides, imidazolides, and active amides.

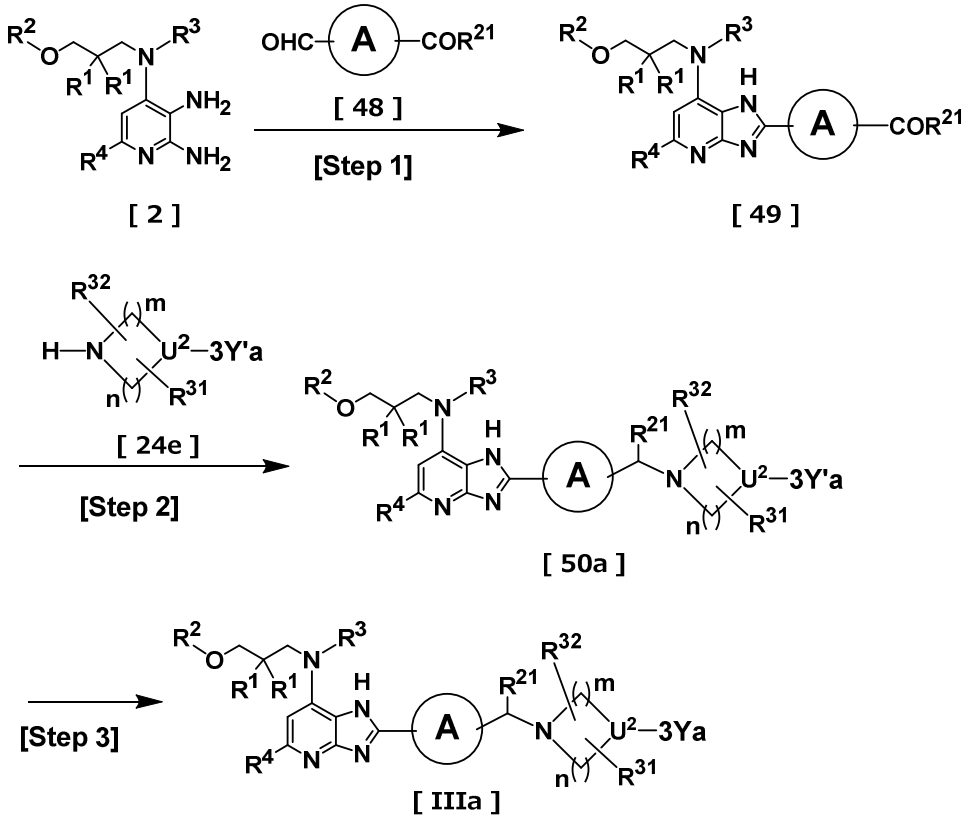
[0238] The amount of the condensing agent and amine Compound [24a] to be used in this step is preferably within the range of 1 to 3 molar equivalents to Compound [46].

[0239] Examples of the condensing agent to be used in this step include 1,1′-carbonyldiimidazole (hereinafter referred to as "CDI"), 1-ethyl-3-(3-dimethylaminopropyl)carbodiimide (hereinafter referred to as "EDCI"), diisopropylcarbodiimide (hereinafter referred to as "DIC"), diethyl cyanophosphonate, O-(benzotriazol-1-yl)-N,N,N′,N′-tetramethyluronium hexafluorophosphate (hereinafter referred to as "HBTU"), O-(7-azabenzotriazol-1-yl)-N,N,N′,N′-tetramethyluronium hexafluorophosphate (hereinafter referred to as "HATU"), and the like.

[0240] In this step, a base can be used as necessary. Examples of the base that can be used include organic bases such as TEA, DIPEA, N,N-dimethylaniline, and DBU.

[0241] The amount of such base to be used is preferably within the range of 1 to 10 molar equivalents to Compound [46].

[0242]



wherein R^1, R^2, R^3, R^4, R^{31}, R^{32}, R^{21}, A, U^2, m, and n are as defined above. 3Ya is Y-1, Y-2, Y-3, Y-4, Y-11, Y-12, Y-14, or Y-15, and 3Y'a is Y'-1, Y'-2, Y'-3, Y'-4, Y'-11, Y'-12, Y'-14, or Y'-15.

[0251] This process is directed to a production of a compound of formula [IIIa], which is a compound of formula [1] wherein R^{21} is alkyl.

[0252] Step 1

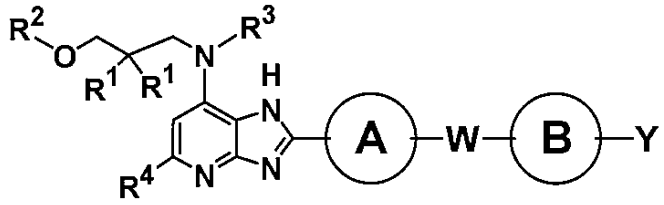
This step affords Compound [49] by cyclocondensation of Compound [2] with Compound [48], which is commercially available or can be prepared according to a known method. This step can be carried out in the similar manner as described in Step 1 of Process 1.

[0253] Step 2

This step affords Compound [50a] by reductive amination reaction of Compound [49] with Compound [24e] and can be carried out according to a method known as reductive amination reaction. In this step, imine formation (first step) and reduction of the imine moiety

Claims

1. An azabenzimidazole compound of the formula [1]:



[1]

wherein:

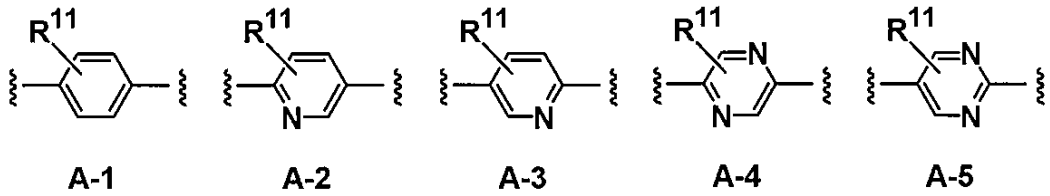
R^1 is a hydrogen atom or alkyl, or two R^1 are taken together with adjacent carbon atom to form a 3- to 7-membered cycloalkyl or an oxygen-containing non-aromatic heterocycle;

R^2 is a hydrogen atom, alkyl, cycloalkyl, alkyl substituted with cycloalkyl, or alkoxyalkyl;

R^3 is a hydrogen atom, alkyl, or alkoxyalkyl;

R^4 is pyridyl optionally substituted with one or two groups selected from the group consisting of alkyl, trihaloalkyl, alkoxy, cyano and cycloalkyl, or phenyl optionally substituted with 1 to 3 groups selected from the group consisting of trihaloalkyl, halogen, alkoxy and cycloalkyl;

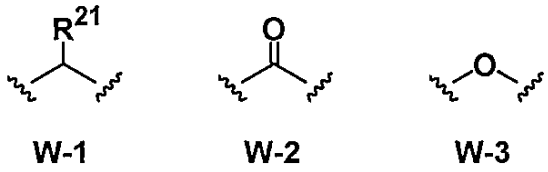
A is a group of the formula A-1, A-2, A-3, A-4, or A-5:



A-1 A-2 A-3 A-4 A-5

wherein the bond on the left side of each group is attached to the 2-position of the azabenzimidazole in the formula [1], and the bond on the right side is attached to W in the formula [1], and R^{11} is a group selected from a hydrogen atom, halogen, alkyl, alkoxy or nitro;

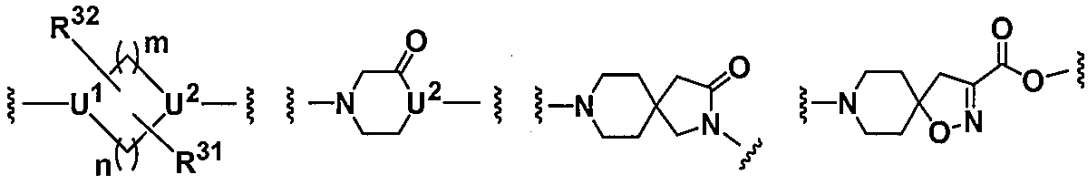
W is a bond, or a group of the formula W-1, W-2, or W-3:



W-1 W-2 W-3

wherein R^{21} is a hydrogen atom or alkyl;

B is a group of the formula B-1, B-2, B-3, or B-4:



B-1 B-2 B-3 B-4

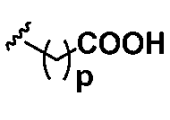
wherein

the bond on the left side of each group is attached to W in the formula [1],

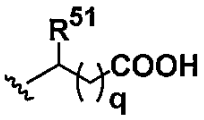
the bond on the right side is attached to Y in the formula [1],

U^1 is a nitrogen atom or CR^{41}, and U^2 is a nitrogen atom, or CR^{42}, and R^{41} and R^{42} are independently a hydrogen atom, alkyl, halogen or a hydroxyl group, m and n are independently 1, 2 or 3, and R^{31} and R^{32} are independently a hydrogen atom, alkyl, halogen or alkoxyalkyl, or R^{31} and R^{32} are taken together with adjacent carbon atom to form an alkylene bridge, provided that R^{31} and R^{32} substitute at any substitutable position other than U^1 and U^2;

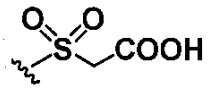
Y is a hydrogen atom, or a group of any one the formula Y-1 to Y-4, Y-11 to Y-16:



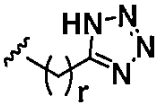
Y-1



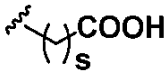
Y-2



Y-3

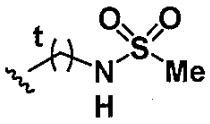


Y-4

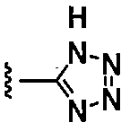


Y-11

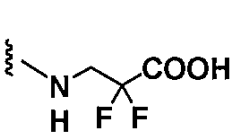
Y-12



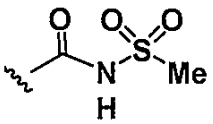
Y-13



Y-14



Y-15



Y-16

wherein

R^{51} is alkyl; p is 1, 2, or 3; q is 0, 1, or 2; r is 1, 2, or 3; T is O, S, SO_2, or NR^{61} wherein R^{61} is a hydrogen atom or alkyl; s is 0, 1, 2, or 3; and t is 0 or 1,

with the proviso that

(a) when W is a bond,

if B is B-1 or B-2 and U^2 is a nitrogen atom, then Y is Y-1, Y-2, Y-3, or Y-4,

if B is B-1 or B-2 and U^2 is CR^{42} wherein R^{42} is as defined above, then U^1 is a nitrogen atom and Y is Y-11, Y-12, Y-13, Y-14, Y-15, or Y-16, and

if B is B-3 or B-4, then Y is a hydrogen atom;

(b) when W is W-1,

if B is B-1, U^1 is a nitrogen atom, and U^2 is a nitrogen atom, then Y is Y-1, Y-2, Y-3, or Y-4, and

if B is B-1, U^1 is a nitrogen atom, and U^2 is CR^{42} wherein R^{42} is as defined above, then Y is Y-11, Y-12, Y-13, Y-14, Y-15, or Y-16;

(c) when W is W-2,

if B is B-1 or B-2, U^1 is a nitrogen atom, and U^2 is a nitrogen atom, then Y is Y-1, Y-2, Y-3, or Y-4,

if B is B-1 or B-2, U^1 is a nitrogen atom, and U^2 is CR^{42} wherein R^{42} is as defined above, then Y is Y-11, Y-12, Y-13, Y-14, Y-15, or Y-16, and

if B is B-3 or B-4, then Y is a hydrogen atom; and

(d) when W is W-3,

if B is B-1, U^1 is CR^{41} wherein R^{41} is as defined above, and U^2 is a nitrogen atom, then Y is Y-1, Y-2, Y-3, or Y-4,
or a pharmaceutically acceptable salt thereof, or a solvate thereof.

2. The azabenzimidazole compound according to claim 1, or a pharmaceutically acceptable salt thereof, or a solvate thereof, wherein W is a bond.

3. The azabenzimidazole compound according to claim 1 or 2, or a pharmaceutically acceptable salt thereof, or a solvate thereof, wherein
(1) B is B-1 or B-2, U^2 is a nitrogen atom, and Y is Y-1, Y-2 or Y-3;
(2) B is B-1 or B-2, U^2 is CR^{42}, and Y is Y-11, Y-12 or Y-15; or
(3) B is B-4 and Y is a hydrogen atom.

4. The azabenzimidazole compound according to claim 3, or a pharmaceutically acceptable salt thereof, or a solvate thereof, wherein R^4 is a group selected from the group consisting of alkyl, trihaloalkyl, alkoxy, cyano and cycloalkyl, or pyridyl substituted with trihaloalkyl.

5. The azabenzimidazole compound according to claim 4, or a pharmaceutically acceptable salt thereof, or a solvate thereof, wherein A is A-4.

6. The azabenzimidazole compound according to any one of claims 1 to 5, wherein the compound is any one of the following (1) to (213), or a pharmaceutically acceptable salt thereof, or a solvate thereof:
(1)
1-(5-{5-[2-ethoxy-6-(trifluoromethyl)pyridin-4-yl]-7-[(3-methoxy-2,2-dimethylpropyl)(methyl)amino]-1H-imidazo[4,5-b]pyridin-2-yl}pyrazin-2-yl)piperidine-4-carboxylic acid,
(2)
1-(5-{5-[2-ethoxy-6-(trifluoromethyl)pyridin-4-yl]-7-[{[1-(methoxymethyl)cyclopentyl]methyl}(methyl)amino]-1H-imidazo[4,5-b]pyridin-2-yl}pyrazin-2-yl)piperidine-4-carboxylic acid,
(3)
1-(5-{5-[6-cyclopropyl-5-(trifluoromethyl)pyridin-3-yl]-7-[{[1-(eth

oxymethyl)cyclopentyl]methyl}(methyl)amino]-1H-imidazo[4,5-b]pyridin-2-yl}pyrazin-2-yl)piperidine-4-carboxylic acid,

(4)

{[1-(5-{5-[2-cyclopropyl-6-(trifluoromethyl)pyridin-4-yl]-7-[{[1-(methoxymethyl)cyclopentyl]methyl}(methyl)amino]-1H-imidazo[4,5-b]pyridin-2-yl}pyrazin-2-yl)piperidine-4-yl]oxy}acetic acid,

(5)

3-[4-(5-{5-[2-ethoxy-5-(trifluoromethyl)pyridin-3-yl]-7-[{[1-(methoxymethyl)cyclopentyl]methyl}(methyl)amino]-1H-imidazo[4,5-b]pyridin-2-yl}pyrazin-2-yl)piperazin-1-yl]propaonic acid,

(6)

3-[4-(5-{5-[6-cyclopropyl-5-(trifluoromethyl)pyridin-3-yl]-7-[{[1-(methoxymethyl)cyclohexyl]methyl}(methyl)amino]-1H-imidazo[4,5-b]pyridin-2-yl}pyrazin-2-yl)piperazin-1-yl]propaonic acid,

(7)

3-[(3R)-4-(5-{5-[6-cyclopropyl-5-(trifluoromethyl)pyridin-3-yl]-7-[{[1-(methoxymethyl)cyclohexyl]methyl}(methyl)amino]-1H-imidazo[4,5-b]pyridin-2-yl}pyrazin-2-yl)-3-methylpiperazin-1-yl]propaonic acid,

(8)

3-[(2S)-4-(5-{5-[6-cyclopropyl-5-(trifluoromethyl)pyridin-3-yl]-7-[{[1-(methoxymethyl)cyclohexyl]methyl}(methyl)amino]-1H-imidazo[4,5-b]pyridin-2-yl}pyrazin-2-yl)-2-(methoxymethyl)piperazin-1-yl]propaonic acid,

(9)

1-(5-{5-[2-ethoxy-6-(trifluoromethyl)pyridin-4-yl]-7-({[1-(methoxymethyl)cyclopentyl]methyl}amino)-1H-imidazo[4,5-b]pyridin-2-yl}pyrazin-2-yl)piperidine-4-carboxylic acid,

(10)

[4-(4-{5-[6-cyclopropyl-5-(trifluoromethyl)pyridin-3-yl]-7-[{[1-(methoxymethyl)cyclopentyl]methyl}(methyl)amino]-1H-imidazo[4,5-b]pyridin-2-yl}-3-fluorophenoxy)piperidine-1-yl]acetic acid,

(11)

1-(5-{5-[2-ethoxy-6-(trifluoromethyl)pyridin-4-yl]-7-[{[1-(methoxymethyl)cyclobutyl]methyl}(methyl)amino]-1H-imidazo[4,5-b]pyridin-2-yl}pyrazin-2-yl)piperidine-4-carboxylic acid,

(12)

3-[4-fluoro-4-(6-{5-[3-fluoro-5-(trifluoromethyl)phenyl]-7-[{[1-(methoxymethyl)cyclobutyl]methyl}(methyl)amino]-1H-imidazo[4,5-b]pyridin-2-yl}pyridin-3-yl)piperidine-1-yl]propaonic acid,

(13)

3-[4-(5-{5-[6-ethoxy-5-(trifluoromethyl)pyridin-3-yl]-7-[{[1-(methoxymethyl)cyclobutyl]methyl}(methyl)amino]-1H-imidazo[4,5-b]pyridin-2-yl}pyrazin-2-yl)piperazin-1-yl]propaonic acid,

(14)

3-[(3R)-4-(5-{5-[6-cyclopropyl-5-(trifluoromethyl)pyridin-3-yl]-7-[{[1-(ethoxymethyl)cyclopentyl]methyl}(methyl)amino]-1H-imidazo[4,5-b]pyridin-2-yl}pyrazin-2-yl)-3-methylpiperazin-1-yl]propaonic acid,

(15)

{[(1R,3r,5S)-8-(5-{5-[2-ethoxy-6-(trifluoromethyl)pyridin-4-yl]-7-[{[1-(methoxymethyl)cyclopentyl]methyl}(methyl)amino]-1H-imidazo[4,5-b]pyridin-2-yl}pyrazin-2-yl)-8-azabicyclo[3.2.1]octan-3-yl]oxy}acetic acid,

(16)

3-[(3R)-4-(5-{5-[2-cyclopropyl-6-(trifluoromethyl)pyridin-4-yl]-7-[{[1-(methoxymethyl)cyclohexyl]methyl}(methyl)amino]-1H-imidazo[4,5-b]pyridin-2-yl}pyrazin-2-yl)-3-methylpiperazin-1-yl]propaonic acid,

(17)

[4-(4-{5-[3-fluoro-5-(trifluoromethyl)phenyl]-7-[{[1-(methoxymethyl)cyclobutyl]methyl}(methyl)amino]-1H-imidazo[4,5-b]pyridin-2-yl}phenoxy)piperidine-1-yl]acetic acid,

(18)

1-(4-{5-[6-ethoxy-5-(trifluoromethyl)pyridin-3-yl]-7-[{[1-(methoxymethyl)cyclobutyl]methyl}(methyl)amino]-1H-imidazo[4,5-b]pyridin-2-yl}phenyl)piperidine-4-carboxylic acid,

(19)

[4-(6-{5-[3-fluoro-5-(trifluoromethyl)phenyl]-7-[{[1-(methoxymethyl)cyclobutyl]methyl}(methyl)amino]-1H-imidazo[4,5-b]pyridin-2-yl}pyridin-3-yl)-4-hydroxypiperidine-1-yl]acetic acid,

(20)

3-[(3R)-4-(5-{5-[6-cyclopropyl-5-(trifluoromethyl)pyridin-3-yl]-7-[{[1-(methoxymethyl)cyclopentyl]methyl}(methyl)amino]-1H-imidazo[4,5-b]pyridin-2-yl}pyrazin-2-yl)-3-methylpiperazin-1-yl]propaonic acid,

(21)
1-(4-{5-[3-fluoro-5-(trifluoromethyl)phenyl]-7-[(3-methoxy-2,2-dimethylpropyl)(methyl)amino]-1H-imidazo[4,5-b]pyridin-2-yl}phenyl)piperidine-4-carboxylic acid,
(22)
[4-(5-{5-[6-cyclopropyl-5-(trifluoromethyl)pyridin-3-yl]-7-[{[1-(methoxymethyl)cyclopentyl]methyl}(methyl)amino]-1H-imidazo[4,5-b]pyridin-2-yl}-3-fluoropyridin-2-yl)piperazin-1-yl]acetic acid,
(23)
5-[3-fluoro-5-(trifluoromethyl)phenyl]-N-{[1-(methoxymethyl)cyclobutyl]methyl}-N-methyl-2-{5-[4-(1H-tetrazol-5-yl)piperidine-1-yl]pyrazin-2-yl}-1H-imidazo[4,5-b]pyridin-7-amine,
(24)
8-(4-{5-[3-fluoro-5-(trifluoromethyl)phenyl]-7-[{[1-(methoxymethyl)cyclobutyl]methyl}(methyl)amino]-1H-imidazo[4,5-b]pyridin-2-yl}phenyl)-2,8-diazaspiro[4.5]decan-3-one,
(25)
1-(5-{5-[6-cyclopropyl-5-(trifluoromethyl)pyridin-3-yl]-7-[{[1-(ethoxymethyl)cyclopentyl]methyl}(methyl)amino]-1H-imidazo[4,5-b]pyridin-2-yl}pyrazin-2-yl)-N-(methanesulfonyl)piperidine-4-carboxamide,
(26)
[4-(4-{5-[3-fluoro-5-(trifluoromethyl)phenyl]-7-[{[1-(methoxymethyl)cyclobutyl]methyl}(methyl)amino]-1H-imidazo[4,5-b]pyridin-2-yl}phenyl)piperidine-1-yl]acetic acid,
(27)
2-[4-(4-{5-[3-fluoro-5-(trifluoromethyl)phenyl]-7-[{[1-(methoxymethyl)cyclobutyl]methyl}(methyl)amino]-1H-imidazo[4,5-b]pyridin-2-yl}phenyl)piperazin-1-yl]propaonic acid,
(28)
1-(4-{5-[3-fluoro-5-(trifluoromethyl)phenyl]-7-[{[1-(methoxymethyl)cyclobutyl]methyl}(methyl)amino]-1H-imidazo[4,5-b]pyridin-2-yl}benzoyl)piperidine-4-carboxylic acid,
(29)
{4-[1-(4-{5-[3-fluoro-5-(trifluoromethyl)phenyl]-7-[{[1-(methoxymethyl)cyclobutyl]methyl}(methyl)amino]-1H-imidazo[4,5-b]pyridin-2-yl}phenyl)ethyl]piperazin-1-yl}acetic acid,

(30)
4-hydroxy-1-(5-{7-[{[1-(methoxymethyl)cyclobutyl]methyl}(methyl)amino]-5-[3-(trifluoromethyl)phenyl]-1H-imidazo[4,5-b]pyridin-2-yl}pyrazin-2-yl)piperidine-4-carboxylic acid,

(31)
8-(4-{7-[{[1-(methoxymethyl)cyclobutyl]methyl}(methyl)amino]-5-[3-(trifluoromethyl)phenyl]-1H-imidazo[4,5-b]pyridin-2-yl}phenyl)-1-oxa-2,8-diazaspiro[4.5]dec-2-ene-3-carboxylic acid,

(32)
1-(5-{7-[{[1-(methoxymethyl)cyclobutyl]methyl}(methyl)amino]-5-[4-methoxy-3-(trifluoromethyl)phenyl]-1H-imidazo[4,5-b]pyridin-2-yl}pyrazin-2-yl)piperidine-4-carboxylic acid,

(33)
8-(4-{7-[{[1-(methoxymethyl)cyclobutyl]methyl}(methyl)amino]-5-[5-(trifluoromethyl)pyridin-3-yl]-1H-imidazo[4,5-b]pyridin-2-yl}phenyl)-1-oxa-2,8-diazaspiro[4.5]dec-2-ene-3-carboxylic acid,

(34)
1-(4-{7-[{[1-(methoxymethyl)cyclobutyl]methyl}(methyl)amino]-5-[3-(trifluoromethyl)phenyl]-1H-imidazo[4,5-b]pyridin-2-yl}phenyl)pyrrolidine-3-carboxylic acid,

(35)
{4-[(4-{5-[3-fluoro-5-(trifluoromethyl)phenyl]-7-[{[1-(methoxymethyl)cyclobutyl]methyl}(methyl)amino]-1H-imidazo[4,5-b]pyridin-2-yl}phenyl)methyl]piperazin-1-yl}acetic acid,

(36)
3-[4-(5-{5-[3-fluoro-5-(trifluoromethyl)phenyl]-7-[{[1-(methoxymethyl)cyclobutyl]methyl}(methyl)amino]-1H-imidazo[4,5-b]pyridin-2-yl}pyrazin-2-yl)piperazin-1-yl]propaonic acid,

(37)
[4-(5-{5-[3-fluoro-5-(trifluoromethyl)phenyl]-7-[{[1-(methoxymethyl)cyclobutyl]methyl}(methyl)amino]-1H-imidazo[4,5-b]pyridin-2-yl}pyrazin-2-yl)piperazin-1-yl]acetic acid,

(38)
4-fluoro-1-(5-{5-[3-fluoro-5-(trifluoromethyl)phenyl]-7-[{[1-(methoxymethyl)cyclobutyl]methyl}(methyl)amino]-1H-imidazo[4,5-b]pyridin-2-yl}pyrazin-2-yl)piperidine-4-carboxylic acid,

(39)
[4-(6-{5-[3-fluoro-5-(trifluoromethyl)phenyl]-7-[{[1-(methoxymethyl)cyclobutyl]methyl}(methyl)amino]-1H-imidazo[4,5-b]pyridin-2-yl}pyridin-3-yl)piperazin-1-yl]acetic acid,

(40)
N-[1-(4-{5-[3-fluoro-5-(trifluoromethyl)phenyl]-7-[{[1-(methoxymethyl)cyclobutyl]methyl}(methyl)amino]-1H-imidazo[4,5-b]pyridin-2-yl}phenyl)piperidine-4-yl]-N-methylglycine,

(41)
[4-(4-{7-[{[1-(methoxymethyl)cyclobutyl]methyl}(methyl)amino]-5-[5-(trifluoromethyl)pyridin-3-yl]-1H-imidazo[4,5-b]pyridin-2-yl}phenyl)piperazin-1-yl]acetic acid,

(42)
1-(5-{5-[6-ethoxy-5-(trifluoromethyl)pyridin-3-yl]-7-[{[1-(methoxymethyl)cyclobutyl]methyl}(methyl)amino]-1H-imidazo[4,5-b]pyridin-2-yl}pyrazin-2-yl)piperidine-4-carboxylic acid,

(43)
[4-(4-{5-[3-fluoro-5-(trifluoromethyl)phenyl]-7-[{[1-(methoxymethyl)cyclobutyl]methyl}(methyl)amino]-1H-imidazo[4,5-b]pyridin-2-yl}phenyl)-4-hydroxypiperidine-1-yl]acetic acid,

(44)
3-[4-(5-{5-[3-fluoro-5-(trifluoromethyl)phenyl]-7-[{[1-(methoxymethyl)cyclobutyl]methyl}(methyl)amino]-1H-imidazo[4,5-b]pyridin-2-yl}pyrazin-2-yl)-2-oxopiperazin-1-yl]propaonic acid,

(45)
3-[4-(5-{5-[2-ethoxy-5-(trifluoromethyl)pyridin-3-yl]-7-[{[1-(methoxymethyl)cyclobutyl]methyl}(methyl)amino]-1H-imidazo[4,5-b]pyridin-2-yl}pyrazin-2-yl)piperazin-1-yl]propaonic acid,

(46)
[4-(5-{5-[3-fluoro-5-(trifluoromethyl)phenyl]-7-[{[1-(methoxymethyl)cyclobutyl]methyl}(methyl)amino]-1H-imidazo[4,5-b]pyridin-2-yl}pyrazin-2-yl)-1,4-diazepan-1-yl]acetic acid,

(47)
3-[(2S)-4-(5-{5-[3-fluoro-5-(trifluoromethyl)phenyl]-7-[{[1-(methoxymethyl)cyclobutyl]methyl}(methyl)amino]-1H-imidazo[4,5-b]pyridin-2-yl}pyrazin-2-yl)-2-methylpiperazin-1-yl]propaonic acid,

(48)
4-[4-(5-{5-[3-fluoro-5-(trifluoromethyl)phenyl]-7-[{[1-(methoxymeth
yl)cyclobutyl]methyl}(methyl)amino]-1H-imidazo[4,5-b]pyridin-2-yl}p
yrazin-2-yl)piperazin-1-yl]butanoic acid,
(49)
N-[1-(5-{5-[3-fluoro-5-(trifluoromethyl)phenyl]-7-[{[1-(methoxymeth
yl)cyclobutyl]methyl}(methyl)amino]-1H-imidazo[4,5-b]pyridin-2-yl}p
yrazin-2-yl)piperidine-4-yl]glycine,
(50)
{[1-(4-{5-[3-fluoro-5-(trifluoromethyl)phenyl]-7-[{[1-(methoxymethy
l)cyclobutyl]methyl}(methyl)amino]-1H-imidazo[4,5-b]pyridin-2-yl}ph
enyl)piperidine-4-yl]oxy}acetic acid,
(51)
{[1-(5-{5-[6-ethoxy-5-(trifluoromethyl)pyridin-3-yl]-7-[{[1-(methox
ymethyl)cyclobutyl]methyl}(methyl)amino]-1H-imidazo[4,5-b]pyridin-2
-yl}pyrazin-2-yl)piperidine-4-yl]oxy}acetic acid,
(52)
N-[1-(4-{5-[3-fluoro-5-(trifluoromethyl)phenyl]-7-[{[1-(methoxymeth
yl)cyclobutyl]methyl}(methyl)amino]-1H-imidazo[4,5-b]pyridin-2-yl}p
henyl)piperidine-4-yl]glycine,
(53)
[4-(6-{5-[3-fluoro-5-(trifluoromethyl)phenyl]-7-[{[1-(methoxymethyl
)cyclobutyl]methyl}(methyl)amino]-1H-imidazo[4,5-b]pyridin-2-yl}pyr
idin-3-yl)-1,4-diazepan-1-yl]acetic acid,
(54)
[4-(5-{5-[3-fluoro-5-(trifluoromethyl)phenyl]-7-[(3-methoxy-2,2-dim
ethylpropyl)(methyl)amino]-1H-imidazo[4,5-b]pyridin-2-yl}pyrazin-2-
yl)-1,4-diazepan-1-yl]acetic acid,
(55)
[4-(5-{5-[6-cyclopropyl-5-(trifluoromethyl)pyridin-3-yl]-7-[{[1-(me
thoxymethyl)cyclopentyl]methyl}(methyl)amino]-1H-imidazo[4,5-b]pyri
din-2-yl}pyrazin-2-yl)-1,4-diazepan-1-yl]acetic acid,
(56)
3-[(2S)-4-(5-{5-[6-ethoxy-5-(trifluoromethyl)pyridin-3-yl]-7-[{[1-(
methoxymethyl)cyclobutyl]methyl}(methyl)amino]-1H-imidazo[4,5-b]pyr
idin-2-yl}pyrazin-2-yl)-2-methylpiperazin-1-yl]propaonic acid,

(57)
3-[4-(5-{7-[{[1-(ethoxymethyl)cyclopentyl]methyl}(methyl)amino]-5-[3-fluoro-5-(trifluoromethyl)phenyl]-1H-imidazo[4,5-b]pyridin-2-yl}pyrazin-2-yl)piperazin-1-yl]propaonic acid,

(58)
3-[4-(5-{5-[3-fluoro-5-(trifluoromethyl)phenyl]-7-[({1-[(2-methoxyethoxy)methyl]cyclopentyl}methyl)(methyl)amino]-1H-imidazo[4,5-b]pyridin-2-yl}pyrazin-2-yl)piperazin-1-yl]propaonic acid,

(59)
{[1-(5-{5-[6-cyclopropyl-5-(trifluoromethyl)pyridin-3-yl]-7-[{[1-(methoxymethyl)cyclopentyl]methyl}(methyl)amino]-1H-imidazo[4,5-b]pyridin-2-yl}pyrazin-2-yl)piperidine-4-yl]oxy}acetic acid,

(60)
3-[(2S)-4-(5-{5-[6-cyclopropyl-5-(trifluoromethyl)pyridin-3-yl]-7-[{[1-(methoxymethyl)cyclopentyl]methyl}(methyl)amino]-1H-imidazo[4,5-b]pyridin-2-yl}pyrazin-2-yl)-2-methylpiperazin-1-yl]propaonic acid,

(61)
1-(5-{5-[2-cyclopropyl-6-(trifluoromethyl)pyridin-4-yl]-7-[{[1-(methoxymethyl)cyclopentyl]methyl}(methyl)amino]-1H-imidazo[4,5-b]pyridin-2-yl}pyrazin-2-yl)piperidine-4-carboxylic acid,

(62)
1-(4-{5-[6-cyclopropyl-5-(trifluoromethyl)pyridin-3-yl]-7-[(3-methoxy-2,2-dimethylpropyl)(methyl)amino]-1H-imidazo[4,5-b]pyridin-2-yl}phenyl)piperidine-4-carboxylic acid,

(63)
1-(4-{5-[2-cyclopropyl-6-(trifluoromethyl)pyridin-4-yl]-7-[{[1-(methoxymethyl)cyclopentyl]methyl}(methyl)amino]-1H-imidazo[4,5-b]pyridin-2-yl}phenyl)piperidine-4-carboxylic acid,

(64)
1-(4-{5-[5,6-bis(trifluoromethyl)pyridin-3-yl]-7-[{[1-(methoxymethyl)cyclopentyl]methyl}(methyl)amino]-1H-imidazo[4,5-b]pyridin-2-yl}phenyl)piperidine-4-carboxylic acid,

(65)
1-(4-{5-[6-ethoxy-5-(trifluoromethyl)pyridin-3-yl]-7-[{[1-(methoxymethyl)cyclopentyl]methyl}(methyl)amino]-1H-imidazo[4,5-b]pyridin-2-yl}phenyl)piperidine-4-carboxylic acid,

(66)
1-(4-{5-[2-cyclopropyl-6-(trifluoromethyl)pyridin-4-yl]-7-[{[1-(methoxymethyl)cyclobutyl]methyl}(methyl)amino]-1H-imidazo[4,5-b]pyridin-2-yl}phenyl)piperidine-4-carboxylic acid,
(67)
1-(4-{5-[6-cyclopropyl-5-(trifluoromethyl)pyridin-3-yl]-7-[{[1-(methoxymethyl)cyclopentyl]methyl}(methyl)amino]-1H-imidazo[4,5-b]pyridin-2-yl}phenyl)piperidine-4-carboxylic acid,
(68)
1-(4-{5-[6-ethoxy-5-(trifluoromethyl)pyridin-3-yl]-7-[{[1-(methoxymethyl)cyclopentyl]methyl}(methyl)amino]-1H-imidazo[4,5-b]pyridin-2-yl}-3-fluorophenyl)piperidine-4-carboxylic acid,
(69)
1-(5-{5-[2-cyclopropyl-6-(trifluoromethyl)pyridin-4-yl]-7-[{[1-(methoxymethyl)cyclobutyl]methyl}(methyl)amino]-1H-imidazo[4,5-b]pyridin-2-yl}pyrazin-2-yl)piperidine-4-carboxylic acid,
(70)
1-(5-{5-[6-ethoxy-5-(trifluoromethyl)pyridin-3-yl]-7-[{[1-(methoxymethyl)cyclopentyl]methyl}(methyl)amino]-1H-imidazo[4,5-b]pyridin-2-yl}pyrazin-2-yl)piperidine-4-carboxylic acid,
(71)
1-(5-{5-[6-ethoxy-5-(trifluoromethyl)pyridin-3-yl]-7-[(3-methoxy-2,2-dimethylpropyl)(methyl)amino]-1H-imidazo[4,5-b]pyridin-2-yl}pyrazin-2-yl)piperidine-4-carboxylic acid,
(72)
1-(5-{5-[2-cyclopropyl-6-(trifluoromethyl)pyridin-4-yl]-7-[(3-methoxy-2,2-dimethylpropyl)(methyl)amino]-1H-imidazo[4,5-b]pyridin-2-yl}pyrazin-2-yl)piperidine-4-carboxylic acid,
(73)
1-(5-{5-[3-ethoxy-5-(trifluoromethyl)phenyl]-7-[{[1-(methoxymethyl)cyclopentyl]methyl}(methyl)amino]-1H-imidazo[4,5-b]pyridin-2-yl}pyrazin-2-yl)piperidine-4-carboxylic acid,
(74)
1-(4-{5-[2-ethoxy-6-(trifluoromethyl)pyridin-4-yl]-7-[{[1-(methoxymethyl)cyclopentyl]methyl}(methyl)amino]-1H-imidazo[4,5-b]pyridin-2-yl}-3-fluorophenyl)piperidine-4-carboxylic acid,

(75)
1-(5-{5-[2-ethoxy-6-(trifluoromethyl)pyridin-4-yl]-7-[{[1-(methoxymethyl)cyclohexyl]methyl}(methyl)amino]-1H-imidazo[4,5-b]pyridin-2-yl}pyrazin-2-yl)piperidine-4-carboxylic acid,
(76)
1-(4-{5-[2-ethoxy-6-(trifluoromethyl)pyridin-4-yl]-7-[{[1-(methoxymethyl)cyclohexyl]methyl}(methyl)amino]-1H-imidazo[4,5-b]pyridin-2-yl}phenyl)piperidine-4-carboxylic acid,
(77)
1-(5-{5-[5-cyclopropyl-6-(trifluoromethyl)pyridin-3-yl]-7-[{[1-(methoxymethyl)cyclobutyl]methyl}(methyl)amino]-1H-imidazo[4,5-b]pyridin-2-yl}pyrazin-2-yl)piperidine-4-carboxylic acid,
(78)
1-(5-{5-[6-cyclopropyl-5-(trifluoromethyl)pyridin-3-yl]-7-[{[1-(methoxymethyl)cyclopentyl]methyl}(methyl)amino]-1H-imidazo[4,5-b]pyridin-2-yl}pyrazin-2-yl)piperidine-4-carboxylic acid,
(79)
1-(5-{5-[5-cyclopropyl-6-(trifluoromethyl)pyridin-3-yl]-7-[{[1-(methoxymethyl)cyclohexyl]methyl}(methyl)amino]-1H-imidazo[4,5-b]pyridin-2-yl}pyrazin-2-yl)piperidine-4-carboxylic acid,
(80)
1-(5-{5-[6-ethoxy-5-(trifluoromethyl)pyridin-3-yl]-7-[{[1-(methoxymethyl)cyclohexyl]methyl}(methyl)amino]-1H-imidazo[4,5-b]pyridin-2-yl}pyrazin-2-yl)piperidine-4-carboxylic acid,
(81)
1-(4-{5-[6-cyclopropyl-5-(trifluoromethyl)pyridin-3-yl]-7-[{[1-(ethoxymethyl)cyclopentyl]methyl}(methyl)amino]-1H-imidazo[4,5-b]pyridin-2-yl}phenyl)piperidine-4-carboxylic acid,
(82)
1-(4-{7-[{[1-(ethoxymethyl)cyclopentyl]methyl}(methyl)amino]-5-[2-ethoxy-6-(trifluoromethyl)pyridin-4-yl]-1H-imidazo[4,5-b]pyridin-2-yl}phenyl)piperidine-4-carboxylic acid,
(83)
1-(5-{5-[6-cyclopropyl-5-(trifluoromethyl)pyridin-3-yl]-7-[{[1-(ethoxymethyl)cyclopentyl]methyl}(ethyl)amino]-1H-imidazo[4,5-b]pyridin-2-yl}pyrazin-2-yl)piperidine-4-carboxylic acid,

(84)
1-(4-{5-[6-ethoxy-5-(trifluoromethyl)pyridin-3-yl]-7-[{[1-(methoxymethyl)cyclobutyl]methyl}(methyl)amino]-1H-imidazo[4,5-b]pyridin-2-yl}-3-fluorophenyl)piperidine-4-carboxylic acid,

(85)
1-(4-{5-[6-ethoxy-5-(trifluoromethyl)pyridin-3-yl]-7-[{[1-(methoxymethyl)cyclobutyl]methyl}(methyl)amino]-1H-imidazo[4,5-b]pyridin-2-yl}-3-methylphenyl)piperidine-4-carboxylic acid,

(86)
3-[(2S)-4-(5-{5-[6-cyclopropyl-5-(trifluoromethyl)pyridin-3-yl]-7-[{[1-(ethoxymethyl)cyclopentyl]methyl}(methyl)amino]-1H-imidazo[4,5-b]pyridin-2-yl}pyrazin-2-yl)-2-(methoxymethyl)piperazin-1-yl]propaonic acid,

(87)
1-(5-{7-[{[1-(methoxymethyl)cyclobutyl]methyl}(methyl)amino]-5-[6-propyl-5-(trifluoromethyl)pyridin-3-yl]-1H-imidazo[4,5-b]pyridin-2-yl}pyrazin-2-yl)piperidine-4-carboxylic acid,

(88)
3-[4-(5-{5-[3-fluoro-5-(trifluoromethyl)phenyl]-7-[{[1-(methoxymethyl)cyclopentyl]methyl}(methyl)amino]-1H-imidazo[4,5-b]pyridin-2-yl}pyrazin-2-yl)piperazin-1-yl]propaonic acid,

(89)
3-[4-(5-{5-[6-ethoxy-5-(trifluoromethyl)pyridin-3-yl]-7-[{[1-(methoxymethyl)cyclopentyl]methyl}(methyl)amino]-1H-imidazo[4,5-b]pyridin-2-yl}pyrazin-2-yl)piperazin-1-yl]propaonic acid,

(90)
3-[4-(5-{5-[4-fluoro-3-(trifluoromethyl)phenyl]-7-[{[1-(methoxymethyl)cyclopentyl]methyl}(methyl)amino]-1H-imidazo[4,5-b]pyridin-2-yl}pyrazin-2-yl)piperazin-1-yl]propaonic acid,

(91)
3-[4-(5-{5-[6-cyclopropyl-5-(trifluoromethyl)pyridin-3-yl]-7-[(3-methoxy-2,2-dimethylpropyl)(methyl)amino]-1H-imidazo[4,5-b]pyridin-2-yl}pyrazin-2-yl)piperazin-1-yl]propaonic acid,

(92)
3-[4-(4-{5-[6-cyclopropyl-5-(trifluoromethyl)pyridin-3-yl]-7-[(3-methoxy-2,2-dimethylpropyl)(methyl)amino]-1H-imidazo[4,5-b]pyridin-2-

yl}phenyl)piperazin-1-yl]propaonic acid,

(93)

3-[(2S)-4-(5-{5-[6-cyclopropyl-5-(trifluoromethyl)pyridin-3-yl]-7-[(3-methoxy-2,2-dimethylpropyl)(methyl)amino]-1H-imidazo[4,5-b]pyridin-2-yl}pyrazin-2-yl)-2-methylpiperazin-1-yl]propaonic acid,

(94)

{[1-(5-{5-[6-cyclopropyl-5-(trifluoromethyl)pyridin-3-yl]-7-[(3-methoxy-2,2-dimethylpropyl)(methyl)amino]-1H-imidazo[4,5-b]pyridin-2-yl}pyrazin-2-yl)piperidine-4-yl]oxy}acetic acid,

(95)

{[1-(5-{5-[6-ethoxy-5-(trifluoromethyl)pyridin-3-yl]-7-[{[1-(methoxymethyl)cyclopentyl]methyl}(methyl)amino]-1H-imidazo[4,5-b]pyridin-2-yl}pyrazin-2-yl)piperidine-4-yl]oxy}acetic acid,

(96)

3-[4-(5-{5-[5,6-bis(trifluoromethyl)pyridin-3-yl]-7-[{[1-(methoxymethyl)cyclopentyl]methyl}(methyl)amino]-1H-imidazo[4,5-b]pyridin-2-yl}pyrazin-2-yl)piperazin-1-yl]propaonic acid,

(97)

3-[4-(5-{5-[2-cyclopropyl-6-(trifluoromethyl)pyridin-4-yl]-7-[{[1-(methoxymethyl)cyclopentyl]methyl}(methyl)amino]-1H-imidazo[4,5-b]pyridin-2-yl}pyrazin-2-yl)piperazin-1-yl]propaonic acid,

(98)

3-[4-(4-{5-[4-fluoro-3-(trifluoromethyl)phenyl]-7-[{[1-(methoxymethyl)cyclopentyl]methyl}(methyl)amino]-1H-imidazo[4,5-b]pyridin-2-yl}phenyl)piperazin-1-yl]propaonic acid,

(99)

3-[4-(5-{5-[6-ethoxy-5-(trifluoromethyl)pyridin-3-yl]-7-[(3-methoxy-2,2-dimethylpropyl)(methyl)amino]-1H-imidazo[4,5-b]pyridin-2-yl}pyrazin-2-yl)piperazin-1-yl]propaonic acid,

(100)

3-[(2S)-4-(5-{5-[6-ethoxy-5-(trifluoromethyl)pyridin-3-yl]-7-[(3-methoxy-2,2-dimethylpropyl)(methyl)amino]-1H-imidazo[4,5-b]pyridin-2-yl}pyrazin-2-yl)-2-methylpiperazin-1-yl]propaonic acid,

(101)

3-[4-(5-{5-[3-fluoro-5-(trifluoromethyl)phenyl]-7-[{[1-(methoxymethyl)cyclobutyl]methyl}(methyl)amino]-1H-imidazo[4,5-b]pyridin-2-yl}p

yrazin-2-yl)piperazin-1-yl]butanoic acid,

(102)

3-[4-(4-{5-[2-cyclopropyl-6-(trifluoromethyl)pyridin-4-yl]-7-[{[1-(methoxymethyl)cyclopentyl]methyl}(methyl)amino]-1H-imidazo[4,5-b]pyridin-2-yl}phenyl)piperazin-1-yl]propaonic acid,

(103)

3-[4-(4-{5-[5,6-bis(trifluoromethyl)pyridin-3-yl]-7-[{[1-(methoxymethyl)cyclopentyl]methyl}(methyl)amino]-1H-imidazo[4,5-b]pyridin-2-yl}phenyl)piperazin-1-yl]propaonic acid,

(104)

3-[(2S)-4-(5-{5-[2-cyclopropyl-6-(trifluoromethyl)pyridin-4-yl]-7-[{[1-(methoxymethyl)cyclopentyl]methyl}(methyl)amino]-1H-imidazo[4,5-b]pyridin-2-yl}pyrazin-2-yl)-2-methylpiperazin-1-yl]propaonic acid,

(105)

3-[(2S)-4-(5-{5-[5,6-bis(trifluoromethyl)pyridin-3-yl]-7-[{[1-(methoxymethyl)cyclopentyl]methyl}(methyl)amino]-1H-imidazo[4,5-b]pyridin-2-yl}pyrazin-2-yl)-2-methylpiperazin-1-yl]propaonic acid,

(106)

[1-(5-{5-[5,6-bis(trifluoromethyl)pyridin-3-yl]-7-[{[1-(methoxymethyl)cyclopentyl]methyl}(methyl)amino]-1H-imidazo[4,5-b]pyridin-2-yl}pyrazin-2-yl)piperidine-4-yl]oxy}acetic acid,

(107)

3-[4-(4-{5-[6-ethoxy-5-(trifluoromethyl)pyridin-3-yl]-7-[(3-methoxy-2,2-dimethylpropyl)(methyl)amino]-1H-imidazo[4,5-b]pyridin-2-yl}phenyl)piperazin-1-yl]propaonic acid,

(108)

3-[(2S)-4-(5-{5-[4-fluoro-3-(trifluoromethyl)phenyl]-7-[(3-methoxy-2,2-dimethylpropyl)(methyl)amino]-1H-imidazo[4,5-b]pyridin-2-yl}pyrazin-2-yl)-2-methylpiperazin-1-yl]propaonic acid,

(109)

3-[(2S)-4-(5-{5-[4-fluoro-3-(trifluoromethyl)phenyl]-7-[{[1-(methoxymethyl)cyclobutyl]methyl}(methyl)amino]-1H-imidazo[4,5-b]pyridin-2-yl}pyrazin-2-yl)-2-methylpiperazin-1-yl]propaonic acid,

(110)

{[1-(5-{5-[4-fluoro-3-(trifluoromethyl)phenyl]-7-[{[1-(methoxymethyl)cyclopentyl]methyl}(methyl)amino]-1H-imidazo[4,5-b]pyridin-2-yl}p

yrazin-2-yl)piperidine-4-yl]oxy}acetic acid,

(111)

3-[(3R)-4-(5-{5-[5,6-bis(trifluoromethyl)pyridin-3-yl]-7-[{[1-(meth
oxymethyl)cyclopentyl]methyl}(methyl)amino]-1H-imidazo[4,5-b]pyridi
n-2-yl}pyrazin-2-yl)-3-methylpiperazin-1-yl]propaonic acid,

(112)

2,2-difluoro-3-{[1-(5-{5-[3-fluoro-5-(trifluoromethyl)phenyl]-7-[{[
1-(methoxymethyl)cyclobutyl]methyl}(methyl)amino]-1H-imidazo[4,5-b]
pyridin-2-yl}pyrazin-2-yl)piperidine-4-yl]amino}propaonic acid,

(113)

{[(3S,4R)-1-(5-{5-[2-cyclopropyl-6-(trifluoromethyl)pyridin-4-yl]-7
-[{[1-(methoxymethyl)cyclopentyl]methyl}(methyl)amino]-1H-imidazo[4
,5-b]pyridin-2-yl}pyrazin-2-yl)-3-fluoropiperidine-4-yl]amino}aceti
c acid,

(114)

3-[4-(5-{5-[2-cyclopropyl-6-(trifluoromethyl)pyridin-4-yl]-7-[{[1-(
methoxymethyl)cyclobutyl]methyl}(methyl)amino]-1H-imidazo[4,5-b]pyr
idin-2-yl}pyrazin-2-yl)piperazin-1-yl]butanoic acid,

(115)

3-[(3R)-4-(5-{5-[6-ethoxy-5-(trifluoromethyl)pyridin-3-yl]-7-[{[1-(
methoxymethyl)cyclobutyl]methyl}(methyl)amino]-1H-imidazo[4,5-b]pyr
idin-2-yl}pyrazin-2-yl)-3-methylpiperazin-1-yl]propaonic acid,

(116)

{[1-(5-{5-[6-ethoxy-5-(trifluoromethyl)pyridin-3-yl]-7-[(3-methoxy-
2,2-dimethylpropyl)(methyl)amino]-1H-imidazo[4,5-b]pyridin-2-yl}pyr
azin-2-yl)piperidine-4-yl]oxy}acetic acid,

(117)

3-[(3R)-4-(5-{5-[4-fluoro-3-(trifluoromethyl)phenyl]-7-[{[1-(methox
ymethyl)cyclopentyl]methyl}(methyl)amino]-1H-imidazo[4,5-b]pyridin-
2-yl}pyrazin-2-yl)-3-methylpiperazin-1-yl]propaonic acid,

(118)

{[(3S,4R)-1-(5-{5-[2-cyclopropyl-6-(trifluoromethyl)pyridin-4-yl]-7
-[{[1-(methoxymethyl)cyclopentyl]methyl}(methyl)amino]-1H-imidazo[4
,5-b]pyridin-2-yl}pyrazin-2-yl)-3-fluoropiperidine-4-yl](methyl)ami
no}acetic acid,

(119)

3-[4-(5-{7-[{[1-(butoxymethyl)cyclopentyl]methyl}(methyl)amino]-5-[3-fluoro-5-(trifluoromethyl)phenyl]-1H-imidazo[4,5-b]pyridin-2-yl}pyrazin-2-yl)piperazin-1-yl]propaonic acid,

(120)

3-[(2R,6S)-4-(5-{5-[2-ethoxy-6-(trifluoromethyl)pyridin-4-yl]-7-[(3-methoxy-2,2-dimethylpropyl)(methyl)amino]-1H-imidazo[4,5-b]pyridin-2-yl}pyrazin-2-yl)-2,6-dimethylpiperazin-1-yl]propaonic acid,

(121)

3-[(2R,6S)-4-(5-{5-[3,5-bis(trifluoromethyl)phenyl]-7-[{[1-(methoxymethyl)cyclopentyl]methyl}(methyl)amino]-1H-imidazo[4,5-b]pyridin-2-yl}pyrazin-2-yl)-2,6-dimethylpiperazin-1-yl]propaonic acid,

(122)

{[1-(5-{5-[2-ethoxy-6-(trifluoromethyl)pyridin-4-yl]-7-[{[1-(methoxymethyl)cyclopentyl]methyl}(methyl)amino]-1H-imidazo[4,5-b]pyridin-2-yl}pyrazin-2-yl)piperidine-4-yl]oxy}acetic acid,

(123)

3-[(2R)-4-(5-{5-[6-cyclopropyl-5-(trifluoromethyl)pyridin-3-yl]-7-[{[1-(methoxymethyl)cyclopentyl]methyl}(methyl)amino]-1H-imidazo[4,5-b]pyridin-2-yl}pyrazin-2-yl)-2-methylpiperazin-1-yl]propaonic acid,

(124)

3-[(3R)-4-(5-{5-[4-fluoro-3-(trifluoromethyl)phenyl]-7-[(3-methoxy-2,2-dimethylpropyl)(methyl)amino]-1H-imidazo[4,5-b]pyridin-2-yl}pyrazin-2-yl)-3-methylpiperazin-1-yl]propaonic acid,

(125)

{[1-(5-{5-[2-cyclopropyl-6-(trifluoromethyl)pyridin-4-yl]-7-[{[1-(methoxymethyl)cyclobutyl]methyl}(methyl)amino]-1H-imidazo[4,5-b]pyridin-2-yl}pyrazin-2-yl)piperidine-4-yl]oxy}acetic acid,

(126)

3-[(3R)-4-(5-{5-[2-ethoxy-6-(trifluoromethyl)pyridin-4-yl]-7-[{[1-(methoxymethyl)cyclobutyl]methyl}(methyl)amino]-1H-imidazo[4,5-b]pyridin-2-yl}pyrazin-2-yl)-3-methylpiperazin-1-yl]propaonic acid,

(127)

3-[(3R)-4-(5-{5-[2-ethoxy-6-(trifluoromethyl)pyridin-4-yl]-7-[(3-methoxy-2,2-dimethylpropyl)(methyl)amino]-1H-imidazo[4,5-b]pyridin-2-yl}pyrazin-2-yl)-3-methylpiperazin-1-yl]propaonic acid,

(128)

3-[(3R)-4-(5-{5-[2-cyclopropyl-6-(trifluoromethyl)pyridin-4-yl]-7-[{[1-(methoxymethyl)cyclobutyl]methyl}(methyl)amino]-1H-imidazo[4,5-b]pyridin-2-yl}pyrazin-2-yl)-3-methylpiperazin-1-yl]propaonic acid,

(129)

3-[(3R)-4-(5-{5-[2-cyclopropyl-6-(trifluoromethyl)pyridin-4-yl]-7-[(3-methoxy-2,2-dimethylpropyl)(methyl)amino]-1H-imidazo[4,5-b]pyridin-2-yl}pyrazin-2-yl)-3-methylpiperazin-1-yl]propaonic acid,

(130)

3-[(2R)-4-(5-{5-[2-ethoxy-6-(trifluoromethyl)pyridin-4-yl]-7-[{[1-(methoxymethyl)cyclobutyl]methyl}(methyl)amino]-1H-imidazo[4,5-b]pyridin-2-yl}pyrazin-2-yl)-2-methylpiperazin-1-yl]propaonic acid,

(131)

3-[(2R)-4-(5-{5-[2-cyclopropyl-6-(trifluoromethyl)pyridin-4-yl]-7-[{[1-(methoxymethyl)cyclobutyl]methyl}(methyl)amino]-1H-imidazo[4,5-b]pyridin-2-yl}pyrazin-2-yl)-2-methylpiperazin-1-yl]propaonic acid,

(132)

3-[(2R)-4-(5-{5-[2-ethoxy-6-(trifluoromethyl)pyridin-4-yl]-7-[(3-methoxy-2,2-dimethylpropyl)(methyl)amino]-1H-imidazo[4,5-b]pyridin-2-yl}pyrazin-2-yl)-2-methylpiperazin-1-yl]propaonic acid,

(133)

3-[(2R)-4-(5-{5-[2-cyclopropyl-6-(trifluoromethyl)pyridin-4-yl]-7-[(3-methoxy-2,2-dimethylpropyl)(methyl)amino]-1H-imidazo[4,5-b]pyridin-2-yl}pyrazin-2-yl)-2-methylpiperazin-1-yl]propaonic acid,

(134)

[(3R)-4-(5-{5-[6-ethoxy-5-(trifluoromethyl)pyridin-3-yl]-7-[(3-methoxy-2,2-dimethylpropyl)(methyl)amino]-1H-imidazo[4,5-b]pyridin-2-yl}pyrazin-2-yl)-3-methylpiperazin-1-yl]acetic acid,

(135)

3-[(2R,6S)-4-(5-{5-[6-ethoxy-5-(trifluoromethyl)pyridin-3-yl]-7-[{[1-(methoxymethyl)cyclobutyl]methyl}(methyl)amino]-1H-imidazo[4,5-b]pyridin-2-yl}pyrazin-2-yl)-2,6-dimethylpiperazin-1-yl]propaonic acid,

(136)

{[(1R,3r,5S)-8-(5-{5-[6-ethoxy-5-(trifluoromethyl)pyridin-3-yl]-7-[{[1-(methoxymethyl)cyclobutyl]methyl}(methyl)amino]-1H-imidazo[4,5-b]pyridin-2-yl}pyrazin-2-yl)-8-azabicyclo[3.2.1]octan-3-yl]oxy}acet

ic acid,

(137)

{[(1R,3r,5S)-8-(5-{5-[2-cyclopropyl-6-(trifluoromethyl)pyridin-4-yl]-7-[{[1-(methoxymethyl)cyclopentyl]methyl}(methyl)amino]-1H-imidazo[4,5-b]pyridin-2-yl}pyrazin-2-yl)-8-azabicyclo[3.2.1]octan-3-yl]oxy}acetic acid,

(138)

[4-(5-{5-[2-cyclopropyl-6-(trifluoromethyl)pyridin-4-yl]-7-[{[1-(methoxymethyl)cyclopentyl]methyl}(methyl)amino]-1H-imidazo[4,5-b]pyridin-2-yl}pyrazin-2-yl)piperazin-1-sulfonyl]acetic acid,

(139)

[(3R)-4-(5-{5-[2-ethoxy-6-(trifluoromethyl)pyridin-4-yl]-7-[(3-methoxy-2,2-dimethylpropyl)(methyl)amino]-1H-imidazo[4,5-b]pyridin-2-yl}pyrazin-2-yl)-3-methylpiperazin-1-yl]acetic acid,

(140)

[(3R)-4-(5-{5-[4-fluoro-3-(trifluoromethyl)phenyl]-7-[(3-methoxy-2,2-dimethylpropyl)(methyl)amino]-1H-imidazo[4,5-b]pyridin-2-yl}pyrazin-2-yl)-3-methylpiperazin-1-yl]acetic acid,

(141)

[(3R)-4-(5-{5-[4-fluoro-3-(trifluoromethyl)phenyl]-7-[{[1-(methoxymethyl)cyclobutyl]methyl}(methyl)amino]-1H-imidazo[4,5-b]pyridin-2-yl}pyrazin-2-yl)-3-methylpiperazin-1-yl]acetic acid,

(142)

[(3R)-4-(5-{5-[4-fluoro-3-(trifluoromethyl)phenyl]-7-[{[1-(methoxymethyl)cyclopentyl]methyl}(methyl)amino]-1H-imidazo[4,5-b]pyridin-2-yl}pyrazin-2-yl)-3-methylpiperazin-1-yl]acetic acid,

(143)

3-[(2R)-4-(5-{5-[2-cyclopropyl-6-(trifluoromethyl)pyridin-4-yl]-7-[{[1-(methoxymethyl)cyclopentyl]methyl}(methyl)amino]-1H-imidazo[4,5-b]pyridin-2-yl}pyrazin-2-yl)-2-methylpiperazin-1-yl]propaonic acid,

(144)

3-[(2R,6S)-4-(5-{5-[2-ethoxy-6-(trifluoromethyl)pyridin-4-yl]-7-[{[1-(methoxymethyl)cyclopentyl]methyl}(methyl)amino]-1H-imidazo[4,5-b]pyridin-2-yl}pyrazin-2-yl)-2,6-dimethylpiperazin-1-yl]propaonic acid,

(145)

{[1-(5-{5-[2-cyclopropyl-6-(trifluoromethyl)pyridin-4-yl]-7-[{[1-(methoxymethyl)cyclopentyl]methyl}(methyl)amino]-1H-imidazo[4,5-b]pyridin-2-yl}pyrazin-2-yl)-3,3-dimethylpiperidine-4-yl]oxy}acetic acid,

(146)

1-(4-{5-[6-cyano-5-(trifluoromethyl)pyridin-3-yl]-7-[{[1-(methoxymethyl)cyclopentyl]methyl}(methyl)amino]-1H-imidazo[4,5-b]pyridin-2-yl}phenyl)piperidine-4-carboxylic acid,

(147)

3-[(2R)-4-(5-{5-[6-ethoxy-5-(trifluoromethyl)pyridin-3-yl]-7-[{[1-(methoxymethyl)cyclopentyl]methyl}(methyl)amino]-1H-imidazo[4,5-b]pyridin-2-yl}pyrazin-2-yl)-2-methylpiperazin-1-yl]propaonic acid,

(148)

[(3R)-4-(5-{5-[6-ethoxy-5-(trifluoromethyl)pyridin-3-yl]-7-[{[1-(methoxymethyl)cyclopentyl]methyl}(methyl)amino]-1H-imidazo[4,5-b]pyridin-2-yl}pyrazin-2-yl)-3-methylpiperazin-1-yl]acetic acid,

(149)

{[1-(5-{5-[2-cyclopropyl-6-(trifluoromethyl)pyridin-4-yl]-7-[{[1-(methoxymethyl)cyclohexyl]methyl}(methyl)amino]-1H-imidazo[4,5-b]pyridin-2-yl}pyrazin-2-yl)piperidine-4-yl]oxy}acetic acid,

(150)

{[1-(5-{5-[2-cyclopropyl-6-(trifluoromethyl)pyridin-4-yl]-7-[{[1-(methoxymethyl)cyclopentyl]methyl}(methyl)amino]-1H-imidazo[4,5-b]pyridin-2-yl}pyrazin-2-yl)-4-methylpiperidine-4-yl]oxy}acetic acid,

(151)

{[(1R,3r,5S)-8-(5-{5-[2-cyclopropyl-6-(trifluoromethyl)pyridin-4-yl]-7-[{[1-(methoxymethyl)cyclohexyl]methyl}(methyl)amino]-1H-imidazo[4,5-b]pyridin-2-yl}pyrazin-2-yl)-8-azabicyclo[3.2.1]octan-3-yl]oxy}acetic acid,

(152)

{[1-(5-{5-[6-ethoxy-5-(trifluoromethyl)pyridin-3-yl]-7-[{[1-(methoxymethyl)cyclobutyl]methyl}(methyl)amino]-1H-imidazo[4,5-b]pyridin-2-yl}pyrazin-2-yl)-4-methylpiperidine-4-yl]oxy}acetic acid,

(153)

1-(4-{5-[2-cyclopropyl-6-(trifluoromethyl)pyridin-4-yl]-7-[{[1-(methoxymethyl)cyclohexyl]methyl}(methyl)amino]-1H-imidazo[4,5-b]pyridin-2-yl}phenyl)piperidine-4-carboxylic acid,

(154)
3-[(3R)-4-(5-{5-[2-ethoxy-6-(trifluoromethyl)pyridin-4-yl]-7-[{[1-(methoxymethyl)cyclopentyl]methyl}(methyl)amino]-1H-imidazo[4,5-b]pyridin-2-yl}pyrazin-2-yl)-3-methylpiperazin-1-yl]propaonic acid,
(155)
3-[(2R)-4-(5-{5-[2-ethoxy-6-(trifluoromethyl)pyridin-4-yl]-7-[{[1-(methoxymethyl)cyclopentyl]methyl}(methyl)amino]-1H-imidazo[4,5-b]pyridin-2-yl}pyrazin-2-yl)-2-methylpiperazin-1-yl]propaonic acid,
(156)
3-[4-(5-{5-[2-cyclopropyl-6-(trifluoromethyl)pyridin-4-yl]-7-[{[1-(methoxymethyl)cyclohexyl]methyl}(methyl)amino]-1H-imidazo[4,5-b]pyridin-2-yl}pyrazin-2-yl)piperazin-1-yl]propaonic acid,
(157)
1-(5-{5-[4-cyclopropyl-3-(trifluoromethyl)phenyl]-7-[{[1-(methoxymethyl)cyclopentyl]methyl}(methyl)amino]-1H-imidazo[4,5-b]pyridin-2-yl}pyrazin-2-yl)piperidine-4-carboxylic acid,
(158)
1-(4-{5-[4-cyclopropyl-3-(trifluoromethyl)phenyl]-7-[{[1-(methoxymethyl)cyclopentyl]methyl}(methyl)amino]-1H-imidazo[4,5-b]pyridin-2-yl}phenyl)piperidine-4-carboxylic acid,
(159)
{[1-(5-{5-[5-cyclopropyl-6-(trifluoromethyl)pyridin-3-yl]-7-[{[1-(methoxymethyl)cyclopentyl]methyl}(methyl)amino]-1H-imidazo[4,5-b]pyridin-2-yl}pyrazin-2-yl)piperidine-4-yl]oxy}acetic acid,
(160)
3-[(3R)-4-(5-{5-[5-cyclopropyl-6-(trifluoromethyl)pyridin-3-yl]-7-[{[1-(methoxymethyl)cyclopentyl]methyl}(methyl)amino]-1H-imidazo[4,5-b]pyridin-2-yl}pyrazin-2-yl)-3-methylpiperazin-1-yl]propaonic acid,
(161)
{[(1R,3s,5S)-8-(5-{5-[2-cyclopropyl-6-(trifluoromethyl)pyridin-4-yl]-7-[{[1-(methoxymethyl)cyclohexyl]methyl}(methyl)amino]-1H-imidazo[4,5-b]pyridin-2-yl}pyrazin-2-yl)-8-azabicyclo[3.2.1]octan-3-yl]oxy}acetic acid,
(162)
3-[4-(5-{5-[2-cyclopropyl-6-(trifluoromethyl)pyridin-4-yl]-7-[{[1-(methoxymethyl)cyclopentyl]methyl}(methyl)amino]-1H-imidazo[4,5-b]py

ridin-2-yl}pyrazin-2-yl)-2,2-dimethylpiperazin-1-yl]propaonic acid,
(163)
3-[(3R)-4-(5-{5-[2-cyclopropyl-6-(trifluoromethyl)pyridin-4-yl]-7-[
{[1-(methoxymethyl)cyclopentyl]methyl}(methyl)amino]-1H-imidazo[4,5
-b]pyridin-2-yl}pyridin-2-yl)-3-methylpiperazin-1-yl]propaonic acid,
(164)
[(3R)-4-(5-{5-[2-cyclopropyl-6-(trifluoromethyl)pyridin-4-yl]-7-[{[
1-(methoxymethyl)cyclohexyl]methyl}(methyl)amino]-1H-imidazo[4,5-b]
pyridin-2-yl}pyrazin-2-yl)-3-methylpiperazin-1-yl]acetic acid,
(165)
[(3R)-4-(5-{5-[2-ethoxy-6-(trifluoromethyl)pyridin-4-yl]-7-[{[1-(me
thoxymethyl)cyclohexyl]methyl}(methyl)amino]-1H-imidazo[4,5-b]pyrid
in-2-yl}pyrazin-2-yl)-3-methylpiperazin-1-yl]acetic acid,
(166)
3-[4-(5-{5-[2-ethoxy-6-(trifluoromethyl)pyridin-4-yl]-7-[{[1-(metho
xymethyl)cyclopentyl]methyl}(methyl)amino]-1H-imidazo[4,5-b]pyridin
-2-yl}pyrazin-2-yl)-2,2-dimethylpiperazin-1-yl]propaonic acid,
(167)
3-[(2R,6S)-4-(5-{5-[2-cyclopropyl-6-(trifluoromethyl)pyridin-4-yl]-
7-[{[1-(methoxymethyl)cyclohexyl]methyl}(methyl)amino]-1H-imidazo[4
,5-b]pyridin-2-yl}pyrazin-2-yl)-2,6-dimethylpiperazin-1-yl]propaoni
c acid,
(168)
{[1-(5-{5-[2-cyclopropyl-6-(trifluoromethyl)pyridin-4-yl]-7-[{[1-(m
ethoxymethyl)cyclohexyl]methyl}(methyl)amino]-1H-imidazo[4,5-b]pyri
din-2-yl}pyrazin-2-yl)-3,3-dimethylpiperidine-4-yl]oxy}acetic acid,
(169)
3-[(3R)-4-(5-{5-[6-cyclopropyl-5-(trifluoromethyl)pyridin-3-yl]-7-(
ethyl{[1-(methoxymethyl)cyclopentyl]methyl}amino)-1H-imidazo[4,5-b]
pyridin-2-yl}pyrazin-2-yl)-3-methylpiperazin-1-yl]propaonic acid,
(170)
{[(1R,3s,5S)-8-(5-{5-[2-ethoxy-6-(trifluoromethyl)pyridin-4-yl]-7-[
{[1-(methoxymethyl)cyclopentyl]methyl}(methyl)amino]-1H-imidazo[4,5
-b]pyridin-2-yl}pyrazin-2-yl)-8-azabicyclo[3.2.1]octan-3-yl]oxy}ace
tic acid,
(171)

1-(5-{5-[6-cyclopropyl-5-(trifluoromethyl)pyridin-3-yl]-7-[{[1-(methoxymethyl)cyclohexyl]methyl}(methyl)amino]-1H-imidazo[4,5-b]pyridin-2-yl}pyrazin-2-yl)piperidine-4-carboxylic acid,

(172)

{[1-(5-{5-[2-cyclopropyl-6-(trifluoromethyl)pyridin-4-yl]-7-[{[1-(methoxymethyl)cyclopentyl]methyl}(methyl)amino]-1H-imidazo[4,5-b]pyridin-2-yl}pyrazin-2-yl)piperidine-4-yl]sulfanil}acetic acid,

(173)

{[1-(5-{5-[2-ethoxy-6-(trifluoromethyl)pyridin-4-yl]-7-[{[1-(methoxymethyl)cyclobutyl]methyl}(methyl)amino]-1H-imidazo[4,5-b]pyridin-2-yl}pyrazin-2-yl)piperidine-4-yl]sulfanil}acetic acid,

(174)

[4-(4-{5-[2-ethoxy-6-(trifluoromethyl)pyridin-4-yl]-7-[{[1-(methoxymethyl)cyclobutyl]methyl}(methyl)amino]-1H-imidazo[4,5-b]pyridin-2-yl}phenoxy)piperidine-1-yl]acetic acid,

(175)

[4-(4-{5-[6-cyclopropyl-5-(trifluoromethyl)pyridin-3-yl]-7-[{[1-(methoxymethyl)cyclopentyl]methyl}(methyl)amino]-1H-imidazo[4,5-b]pyridin-2-yl}phenoxy)piperidine-1-yl]acetic acid,

(176)

3-[4-(4-{5-[3-fluoro-5-(trifluoromethyl)phenyl]-7-[{[1-(methoxymethyl)cyclobutyl]methyl}(methyl)amino]-1H-imidazo[4,5-b]pyridin-2-yl}phenoxy)piperidine-1-yl]propaonic acid,

(177)

[4-(3-chloro-4-{5-[6-cyclopropyl-5-(trifluoromethyl)pyridin-3-yl]-7-[{[1-(methoxymethyl)cyclopentyl]methyl}(methyl)amino]-1H-imidazo[4,5-b]pyridin-2-yl}phenoxy)piperidine-1-yl]acetic acid,

(178)

3-[4-(4-{5-[6-cyclopropyl-5-(trifluoromethyl)pyridin-3-yl]-7-[{[1-(methoxymethyl)cyclopentyl]methyl}(methyl)amino]-1H-imidazo[4,5-b]pyridin-2-yl}phenoxy)piperidine-1-yl]propaonic acid,

(179)

3-[(1R,3s,5S)-3-(4-{5-[6-cyclopropyl-5-(trifluoromethyl)pyridin-3-yl]-7-[{[1-(methoxymethyl)cyclopentyl]methyl}(methyl)amino]-1H-imidazo[4,5-b]pyridin-2-yl}phenoxy)-8-azabicyclo[3.2.1]octan-8-yl]propaonic acid,

(180)
[4-(4-{5-[3-fluoro-5-(trifluoromethyl)phenyl]-7-[{[1-(methoxymethyl)cyclobutyl]methyl}(methyl)amino]-1H-imidazo[4,5-b]pyridin-2-yl}phenyl)piperazin-1-yl]acetic acid,

(181)
1-(4-{5-[6-cyclopropyl-5-(trifluoromethyl)pyridin-3-yl]-7-[{[1-(methoxymethyl)cyclobutyl]methyl}(methyl)amino]-1H-imidazo[4,5-b]pyridin-2-yl}phenyl)piperidine-4-carboxylic acid,

(182)
1-(4-{5-[3,5-bis(trifluoromethyl)phenyl]-7-[{[1-(methoxymethyl)cyclopentyl]methyl}(methyl)amino]-1H-imidazo[4,5-b]pyridin-2-yl}phenyl)piperidine-4-carboxylic acid,

(183)
1-(4-{5-[2-ethoxy-6-(trifluoromethyl)pyridin-4-yl]-7-[{[1-(methoxymethyl)cyclopentyl]methyl}(methyl)amino]-1H-imidazo[4,5-b]pyridin-2-yl}phenyl)piperidine-4-carboxylic acid,

(184)
1-(4-{5-[2-cyclopropyl-6-(trifluoromethyl)pyridin-4-yl]-7-[(3-methoxy-2,2-dimethylpropyl)(methyl)amino]-1H-imidazo[4,5-b]pyridin-2-yl}phenyl)piperidine-4-carboxylic acid,

(185)
1-(4-{5-[2-ethoxy-6-(trifluoromethyl)pyridin-4-yl]-7-[(3-methoxy-2,2-dimethylpropyl)(methyl)amino]-1H-imidazo[4,5-b]pyridin-2-yl}phenyl)piperidine-4-carboxylic acid,

(186)
{1-[(4-{5-[3-fluoro-5-(trifluoromethyl)phenyl]-7-[{[1-(methoxymethyl)cyclobutyl]methyl}(methyl)amino]-1H-imidazo[4,5-b]pyridin-2-yl}phenyl)methyl]piperidine-4-yl}acetic acid,

(187)
3-[4-(5-{5-[3-fluoro-5-(trifluoromethyl)phenyl]-7-[{[1-(methoxymethyl)cyclobutyl]methyl}(methyl)amino]-1H-imidazo[4,5-b]pyridin-2-yl}pyridin-2-yl)-4-hydroxypiperidine-1-yl]propaonic acid,

(188)
3-[4-(5-{5-[3-fluoro-5-(trifluoromethyl)phenyl]-7-[(3-methoxy-2,2-dimethylpropyl)(methyl)amino]-1H-imidazo[4,5-b]pyridin-2-yl}pyrazin-2-yl)piperazin-1-yl]propaonic acid,

(189)
3-[4-(6-{5-[3-fluoro-5-(trifluoromethyl)phenyl]-7-[{[1-(methoxymeth
yl)cyclohexyl]methyl}(methyl)amino]-1H-imidazo[4,5-b]pyridin-2-yl}p
yridin-3-yl)piperazin-1-yl]propaonic acid,
(190)
3-[4-(5-{5-[6-cyclopropyl-5-(trifluoromethyl)pyridin-3-yl]-7-[{[1-(
methoxymethyl)cyclopentyl]methyl}(methyl)amino]-1H-imidazo[4,5-b]py
ridin-2-yl}pyrazin-2-yl)piperazin-1-yl]propaonic acid,
(191)
3-[4-(4-{5-[6-cyclopropyl-5-(trifluoromethyl)pyridin-3-yl]-7-[{[1-(
methoxymethyl)cyclopentyl]methyl}(methyl)amino]-1H-imidazo[4,5-b]py
ridin-2-yl}phenyl)piperazin-1-yl]propaonic acid,
(192)
3-[4-(4-{5-[6-ethoxy-5-(trifluoromethyl)pyridin-3-yl]-7-[{[1-(metho
xymethyl)cyclohexyl]methyl}(methyl)amino]-1H-imidazo[4,5-b]pyridin-
2-yl}phenyl)piperazin-1-yl]propaonic acid,
(193)
3-[4-(4-{5-[6-cyclopropyl-5-(trifluoromethyl)pyridin-3-yl]-7-[{[1-(
methoxymethyl)cyclohexyl]methyl}(methyl)amino]-1H-imidazo[4,5-b]pyr
idin-2-yl}phenyl)piperazin-1-yl]propaonic acid,
(194)
3-[4-(5-{5-[3,5-bis(trifluoromethyl)phenyl]-7-[{[1-(methoxymethyl)c
yclopentyl]methyl}(methyl)amino]-1H-imidazo[4,5-b]pyridin-2-yl}pyra
zin-2-yl)piperazin-1-yl]propaonic acid,
(195)
3-[4-(5-{5-[6-cyclopropyl-5-(trifluoromethyl)pyridin-3-yl]-7-[{[1-(
methoxymethyl)cyclobutyl]methyl}(methyl)amino]-1H-imidazo[4,5-b]pyr
idin-2-yl}pyrazin-2-yl)piperazin-1-yl]propaonic acid,
(196)
3-[(2S)-4-(5-{5-[6-cyclopropyl-5-(trifluoromethyl)pyridin-3-yl]-7-[
{[1-(methoxymethyl)cyclobutyl]methyl}(methyl)amino]-1H-imidazo[4,5-
b]pyridin-2-yl}pyrazin-2-yl)-2-methylpiperazin-1-yl]propaonic acid,
(197)
3-[(3S)-4-(5-{5-[6-cyclopropyl-5-(trifluoromethyl)pyridin-3-yl]-7-[
{[1-(methoxymethyl)cyclobutyl]methyl}(methyl)amino]-1H-imidazo[4,5-
b]pyridin-2-yl}pyrazin-2-yl)-3-methylpiperazin-1-yl]propaonic acid,

(198)
[(3R)-4-(5-{5-[6-cyclopropyl-5-(trifluoromethyl)pyridin-3-yl]-7-[{[1-(methoxymethyl)cyclohexyl]methyl}(methyl)amino]-1H-imidazo[4,5-b]pyridin-2-yl}pyrazin-2-yl)-3-methylpiperazin-1-yl]acetic acid,
(199)
[(3R)-4-(5-{5-[2-cyclopropyl-6-(trifluoromethyl)pyridin-4-yl]-7-[{[1-(methoxymethyl)cyclobutyl]methyl}(methyl)amino]-1H-imidazo[4,5-b]pyridin-2-yl}pyrazin-2-yl)-3-methylpiperazin-1-yl]acetic acid,
(200)
[(3R)-4-(5-{5-[6-cyclopropyl-5-(trifluoromethyl)pyridin-3-yl]-7-[{[1-(methoxymethyl)cyclobutyl]methyl}(methyl)amino]-1H-imidazo[4,5-b]pyridin-2-yl}pyrazin-2-yl)-3-methylpiperazin-1-yl]acetic acid,
(201)
3-[4-(5-{5-[6-cyclopropyl-5-(trifluoromethyl)pyridin-3-yl]-7-[{[1-(methoxymethyl)cyclopentyl]methyl}(methyl)amino]-1H-imidazo[4,5-b]pyridin-2-yl}-3-fluoropyridin-2-yl)piperazin-1-yl]propaonic acid,
(202)
[(3R)-4-(5-{5-[6-ethoxy-5-(trifluoromethyl)pyridin-3-yl]-7-[{[1-(methoxymethyl)cyclobutyl]methyl}(methyl)amino]-1H-imidazo[4,5-b]pyridin-2-yl}pyrazin-2-yl)-3-methylpiperazin-1-yl]acetic acid,
(203)
[(3R)-4-(5-{5-[6-cyclopropyl-5-(trifluoromethyl)pyridin-3-yl]-7-[{[1-(ethoxymethyl)cyclopentyl]methyl}(methyl)amino]-1H-imidazo[4,5-b]pyridin-2-yl}pyrazin-2-yl)-3-methylpiperazin-1-yl]acetic acid,
(204)
1-(4-{5-[4-ethoxy-3-(trifluoromethyl)phenyl]-7-[{[1-(methoxymethyl)cyclopentyl]methyl}(methyl)amino]-1H-imidazo[4,5-b]pyridin-2-yl}phenyl)piperidine-4-carboxylic acid,
(205)
1-(4-{5-[5-cyclopropyl-6-(trifluoromethyl)pyridin-3-yl]-7-[{[1-(methoxymethyl)cyclohexyl]methyl}(methyl)amino]-1H-imidazo[4,5-b]pyridin-2-yl}phenyl)piperidine-4-carboxylic acid,
(206)
3-[(3R)-4-(4-{5-[6-cyclopropyl-5-(trifluoromethyl)pyridin-3-yl]-7-[{[1-(methoxymethyl)cyclohexyl]methyl}(methyl)amino]-1H-imidazo[4,5-b]pyridin-2-yl}phenyl)-3-methylpiperazin-1-yl]propaonic acid,

(207)
3-[(3R)-4-(4-{5-[2-ethoxy-6-(trifluoromethyl)pyridin-4-yl]-7-[{[1-(methoxymethyl)cyclohexyl]methyl}(methyl)amino]-1H-imidazo[4,5-b]pyridin-2-yl}phenyl)-3-methylpiperazin-1-yl]propaonic acid,
(208)
3-[(3R)-4-(5-{5-[6-cyclopropyl-5-(trifluoromethyl)pyridin-3-yl]-7-[{[1-(methoxymethyl)cyclopentyl]methyl}(methyl)amino]-1H-imidazo[4,5-b]pyridin-2-yl}-3-fluoropyridin-2-yl)-3-methylpiperazin-1-yl]propaonic acid,
(209)
5-[3-fluoro-5-(trifluoromethyl)phenyl]-N-{[1-(methoxymethyl)cyclobutyl]methyl}-N-methyl-2-(5-{4-[(1H-tetrazol-5-yl)methyl]piperazin-1-yl}pyrazin-2-yl)-1H-imidazo[4,5-b]pyridin-7-amine,
(210)
5-[3-fluoro-5-(trifluoromethyl)phenyl]-N-{[1-(methoxymethyl)cyclobutyl]methyl}-N-methyl-2-(5-{4-[2-(1H-tetrazol-5-yl)ethyl]piperazin-1-yl}pyrazin-2-yl)-1H-imidazo[4,5-b]pyridin-7-amine,
(211)
N-{2-[4-(5-{5-[6-cyclopropyl-5-(trifluoromethyl)pyridin-3-yl]-7-[{[1-(methoxymethyl)cyclopentyl]methyl}(methyl)amino]-1H-imidazo[4,5-b]pyridin-2-yl}pyrazin-2-yl)piperazin-1-yl]ethyl}sulfonate amide,
(212)
3-[4-(4-{5-[3-fluoro-5-(trifluoromethyl)phenyl]-7-[{[1-(methoxymethyl)cyclobutyl]methyl}(methyl)amino]-1H-imidazo[4,5-b]pyridin-2-yl}phenyl)piperidine-1-yl]propanoic acid, and
(213)
[4-(4-{5-[3-fluoro-5-(trifluoromethyl)phenyl]-7-[{[1-(methoxymethyl)cyclobutyl]methyl}(methyl)amino]-1H-imidazo[4,5-b]pyridin-2-yl}benzoyl)piperazin-1-yl]acetic acid.

7. The azabenzimidazole compound according to any one of claims 1 to 6, wherein the compound is any one of the following (1) to (12), or a pharmaceutically acceptable salt thereof, or a solvate thereof:
(1)
1-(5-{5-[2-ethoxy-6-(trifluoromethyl)pyridin-4-yl]-7-[(3-methoxy-2,2-dimethylpropyl)(methyl)amino]-1H-imidazo[4,5-b]pyridin-2-yl}pyraz

in-2-yl)piperidine-4-carboxylic acid,

(2)

1-(5-{5-[2-ethoxy-6-(trifluoromethyl)pyridin-4-yl]-7-[{[1-(methoxymethyl)cyclopentyl]methyl}(methyl)amino]-1H-imidazo[4,5-b]pyridin-2-yl}pyrazin-2-yl)piperidine-4-carboxylic acid,

(3)

1-(5-{5-[6-cyclopropyl-5-(trifluoromethyl)pyridin-3-yl]-7-[{[1-(ethoxymethyl)cyclopentyl]methyl}(methyl)amino]-1H-imidazo[4,5-b]pyridin-2-yl}pyrazin-2-yl)piperidine-4-carboxylic acid,

(4)

{[1-(5-{5-[2-cyclopropyl-6-(trifluoromethyl)pyridin-4-yl]-7-[{[1-(methoxymethyl)cyclopentyl]methyl}(methyl)amino]-1H-imidazo[4,5-b]pyridin-2-yl}pyrazin-2-yl)piperidine-4-yl]oxy}acetic acid,

(5)

3-[4-(5-{5-[6-cyclopropyl-5-(trifluoromethyl)pyridin-3-yl]-7-[{[1-(methoxymethyl)cyclohexyl]methyl}(methyl)amino]-1H-imidazo[4,5-b]pyridin-2-yl}pyrazin-2-yl)piperazin-1-yl]propanoic acid,

(6)

3-[(3R)-4-(5-{5-[6-cyclopropyl-5-(trifluoromethyl)pyridin-3-yl]-7-[{[1-(methoxymethyl)cyclohexyl]]methyl}(methyl)amino]-1H-imidazo[4,5-b]pyridin-2-yl}pyrazin-2-yl)-3-methylpiperazin-1-yl]propanoic acid,

(7)

3-[(2S)-4-(5-{5-[6-cyclopropyl-5-(trifluoromethyl)pyridin-3-yl]-7-[{[1-(methoxymethyl)cyclohexyl]]methyl}(methyl)amino]-1H-imidazo[4,5-b]pyridin-2-yl}pyrazin-2-yl)-2-(methoxymethyl)piperazin-1-yl]propanoic acid,

(8)

1-(5-{5-[2-ethoxy-6-(trifluoromethyl)pyridin-4-yl]-7-[{[1-(methoxymethyl)cyclobutyl]methyl}(methyl)amino]-1H-imidazo[4,5-b]pyridin-2-yl}pyrazin-2-yl)piperidine-4-carboxylic acid,

(9)

3-[(3R)-4-(5-{5-[6-cyclopropyl-5-(trifluoromethyl)pyridin-3-yl]-7-[{[1-(ethoxymethyl)cyclopentyl]methyl}(methyl)amino]-1H-imidazo[4,5-b]pyridin-2-yl}pyrazin-2-yl)-3-methylpiperazin-1-yl]propanoic acid,

(10)

{[(1R,3R,5S)-8-(5-{5-[2-ethoxy-6-(trifluoromethyl)pyridin-4-yl]-7-[

{[1-(methoxymethyl)cyclopentyl]methyl}(methyl)amino]-1H-imidazo[4,5-b]pyridin-2-yl}pyrazin-2-yl)-8-azabicyclo[3.2.1]octan-3-yl]oxy}acetic acid,

(11)

3-[(3R)-4-(5-{5-[2-cyclopropyl-6-(trifluoromethyl)pyridin-4-yl]-7-[{[1-(methoxymethyl)cyclohexyl]]methyl}(methyl)amino]-1H-imidazo[4,5-b]pyridin-2-yl}pyrazin-2-yl)-3-methylpiperazin-1-yl]propanoic acid, and

(12)

3-[(3R)-4-(5-{5-[6-cyclopropyl-5-(trifluoromethyl)pyridin-3-yl]-7-[{[1-(methoxymethyl)cyclopentyl]methyl}(methyl)amino]-1H-imidazo[4,5-b]pyridin-2-yl}pyrazin-2-yl)-3-methylpiperazin-1-yl]propanoic acid.

8. A pharmaceutical composition comprising the azabenzimidazole compound according to any one of claims 1 to 7 or a pharmaceutically acceptable salt thereof, or a solvate thereof, as an active ingredient.

9. A pharmaceutical composition having an ~~An~~ M3 PAM activity, comprising the azabenzimidazole compound according to any one of claims 1 to 7 or a pharmaceutically acceptable salt thereof, or a solvate thereof, as an active ingredient.

10. A prophylactic or therapeutic agent for voiding and/or storage disorders in bladder/urethral disease, glaucoma or diabetes in which the M3 receptor involves, comprising the azabenzimidazole compound according to any one of claims 1 to 7 or a pharmaceutically acceptable salt thereof, or a solvate thereof, as an active ingredient.

11. The prophylactic or therapeutic agent according to claim 10, wherein the voiding and/or storage disorders in bladder/urethral disease in which the M3 receptor involves is due to underactive bladder, hypotonic bladder, acontractile bladder, detrusor underactivity, neurogenic bladder, urethral relaxation failure, or detrusor-external urethral sphincter dyssynergia.

12. A prophylactic or therapeutic agent for use in prevention or treatment of voiding and/or storage disorders in bladder/urethral disease, glaucoma or diabetes in which the M3 receptor involves, comprising the azabenzimidazole compound according to any one of claims 1 to 7, a pharmaceutically acceptable salt thereof, or a solvate thereof, as an active ingredient.

13. The prophylactic or therapeutic agent for use according to claim 12, wherein the voiding and/or storage disorders in bladder/urethral disease in which the M3 receptor involves is due to underactive bladder, hypotonic bladder, acontractile bladder, detrusor underactivity, neurogenic bladder, urethral relaxation failure, or detrusor-external urethral sphincter dyssynergia.

14. Use of the azabenzimidazole compound according to any one of claims 1 to 7, a pharmaceutically acceptable salt thereof or a solvate thereof in the manufacture of a medicament for prevention or treatment of voiding and/or storage disorders in bladder/urethral disease, glaucoma or diabetes in which the M3 receptor involves.

15. The use according to claim 14, wherein the voiding and/or storage disorders in bladder/urethral disease in which the M3 receptor involves is due to underactive bladder, hypotonic bladder, acontractile bladder, detrusor underactivity, neurogenic bladder, urethral relaxation failure, or detrusor-external urethral sphincter dyssynergia.