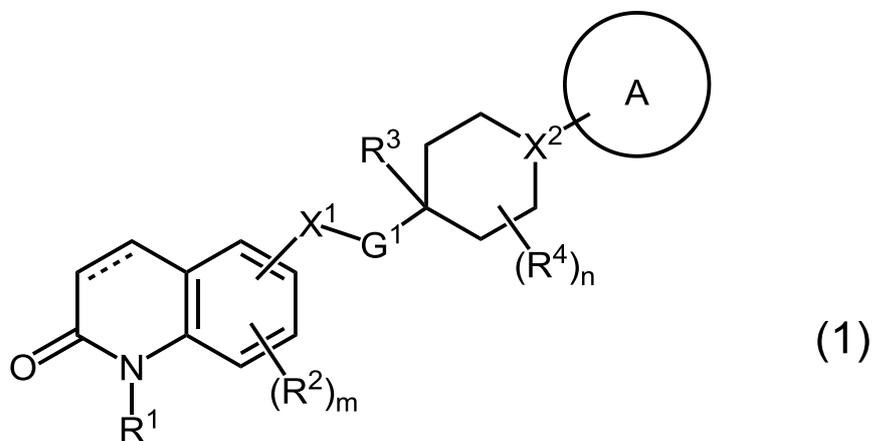


WE CLAIM:

[Claim 1]

A compound of the general formula (1):



or a salt thereof,

wherein the moiety:

— — — —

represents single bond or double bond; and

wherein R¹ is

- (1) hydrogen,
- (2) amino which may have one or two of the same or different C₁₋₆ alkyl or
- (3) C₁₋₆ alkyl;

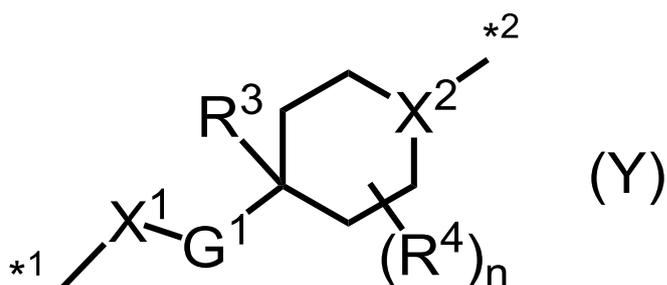
R² is

- (1) halogen,
- (2) amino which may have one or two of the same or different C₁₋₆ alkyl ,
- (3) C₁₋₆ alkyl,
- (4) C₁₋₆ alkoxy or
- (5) hydroxy;

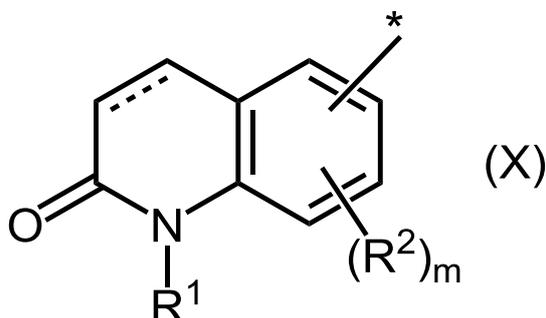
m is an integer of 0 to 3;

provided that when m is 2 or 3, R² may be different from each other;

a partial structure (Y) of formula (1) is represented by the following partial structure:

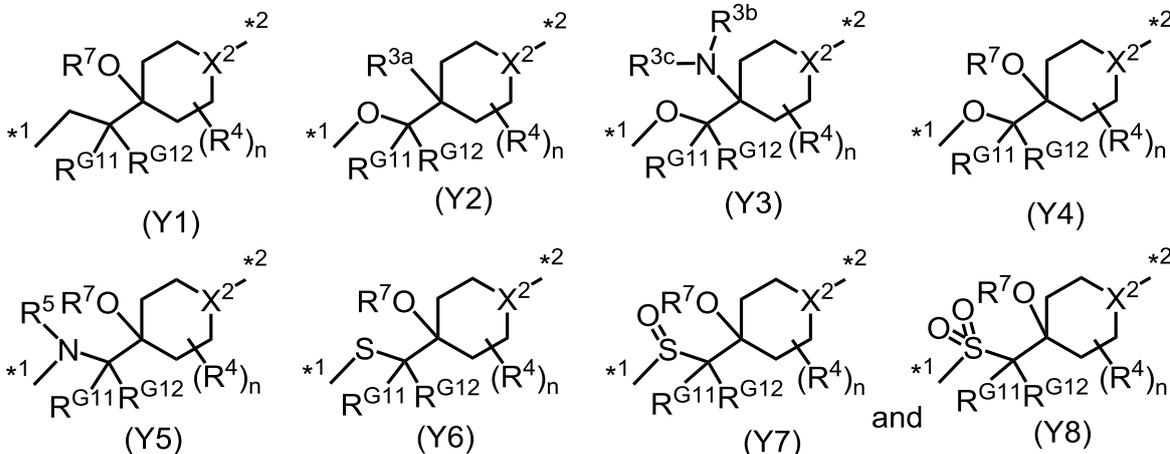


wherein *1 is a binding point to a partial structure (X) of formula (1) and *2 is a binding point to Ring A, and the partial structure (X) of formula (1) is represented by the following partial structure:



wherein * is a binding point to X¹,

the partial structure (Y) is any one of the structures selected from the group consisting of the following formulae (Y1) to (Y8):



wherein R^{3a} is

- (1) hydrogen,
- (2) carboxy,
- (3) halogen,
- (4) C₁₋₆ alkyl, which may have one or more hydroxy, or
- (5) cyano;

R^{3b} and R^{3c} are each independently

- (1) hydrogen,
- (2) C₁₋₆ alkyl, or
- (3) -C(=O)-R⁶;

R^{G11} and R^{G12} are each independently hydrogen or C₁₋₆ alkyl;

the total number of carbon atoms in R^{G11} and R^{G12} is 0 to 5;

R^5 is

- (1) hydrogen,
- (2) C_{1-6} alkyl or
- (3) C_{1-7} alkanoyl;

R^6 is

- (1) C_{1-6} alkoxy or
- (2) C_{1-6} alkyl, wherein the C_{1-6} alkyl may have amino which may have one or two

of the same or different C_{1-6} alkyl;

R^7 is

- (1) hydrogen,
- (2) amino,
- (3) C_{1-7} alkanoyl or
- (4) C_{1-6} alkyl;

R^4 is

- (1) amino which may have one or two of the same or different C_{1-6} alkyl,
- (2) halogen,
- (3) cyano,
- (4) C_{1-6} alkyl,
- (5) oxo,
- (6) $-O-R^8$ or
- (7) $-O-C(=O)-R^9$;

R^8 is

- (1) hydrogen,
- (2) C_{1-6} alkyl,
- (3) $-PH(=O)OH$ or
- (4) benzyl which may have one or more of the same or different C_{1-6} alkoxy;

R^9 is

- (1) C_{1-6} alkyl,
- (2) $-G^2-COOH$,
- (3) amino which may have one or two of the same or different C_{1-6} alkyl,
- (4) C_{1-6} alkoxy or
- (5) pyrazinyl;

G^2 is C_{1-6} alkylene;

n is an integer of 0 to 8;

provided that when n is 2 or more, each of R^4 , R^8 , R^9 , and G^2 may be different from each other and may be substituted on the same carbon atom;

X^2 is N or CH;

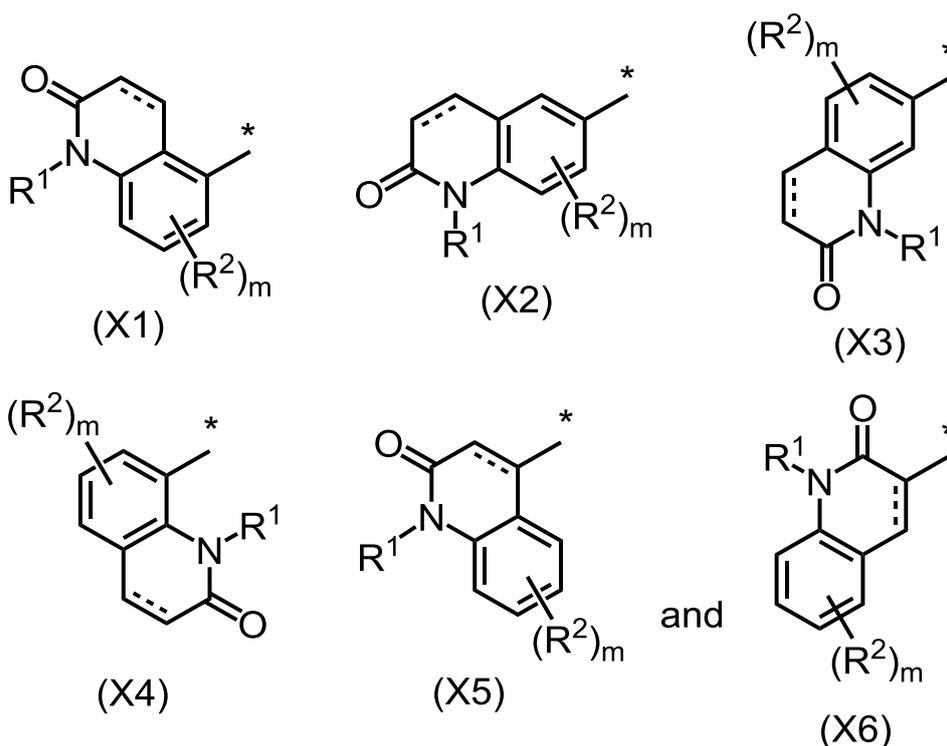
provided that when X^2 is CH, H of the group may be replaced with R^4 which is defined as above, wherein multiple R^4 s in formula (1) may be the same or different from each other; and

Ring A is

- (1) aryl which may have one or more substituents, or
- (2) heterocyclyl which may have one or more substituents.

[Claim 2]

The compound as claimed in claim 1, or a salt thereof, wherein the partial structure (X) is any one of the structures selected from the group consisting of the following formulae (X1) to (X6):



wherein the symbols are as defined in the above and claim 1.

[Claim 3]

The compound as claimed in either claim 1 or 2, or a salt thereof, wherein Ring A is aryl or heterocyclyl which may have 1 to 5 substituents independently selected from:

- (a) halogen;

- (b) cyano;
- (c) nitro;
- (d) hydroxy;
- (e) C₁₋₆ alkyl which may have one or more substituents independently selected

from:

- (i) halogen,
- (ii) hydroxy,
- (iii) C₁₋₆ alkoxy, and
- (iv) aryloxy which may have one or more of the same or different

halogen ;

- (f) C₁₋₆ alkoxy which may have one or more substituents independently selected

from:

- (i) halogen,
- (ii) C₁₋₆ alkoxy which may have one or more of the same or different C₁₋₆ alkoxy,
- (iii) aryloxy which may have one or more of the same or different

halogen ,

- (iv) heterocyclyl which may have one or more of the same or different

C₁₋₆ alkyl which may have one or more of the same or different halogen, and

- (v) amino which may have one or two of the same or different C₁₋₆ alkyl;

- (g) C₁₋₆ alkoxy carbonyl;
- (h) C₁₋₆ alkylsulfanyl;
- (i) aryl which may have one or more of the same or different halogen;
- (j) aryloxy; and
- (k) aralkyloxy which may have one or more substituents independently selected

from:

- (i) halogen,
- (ii) C₁₋₆ alkyl which may have one or more of the same or different

halogen, and

- (iii) C₁₋₆ alkoxy which may have one or more of the same or different

halogen.

[Claim 4]

The compound as claimed in any one of claims 1 to 3, or a salt thereof, wherein R¹ is hydrogen.

[Claim 5]

The compound as claimed in any one of claims 1 to 4, or a salt thereof, wherein R^2 is halogen.

[Claim 6]

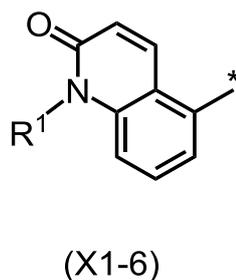
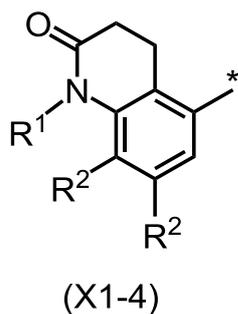
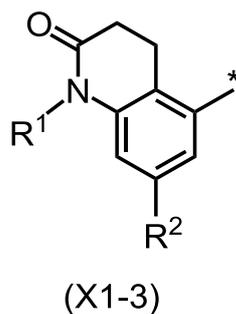
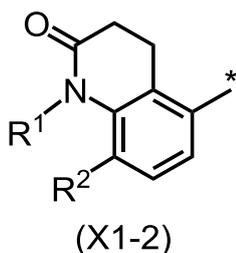
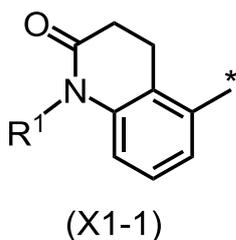
The compound as claimed in any one of claims 1 to 5, or a salt thereof, wherein m is 0, 1 or 2.

[Claim 7]

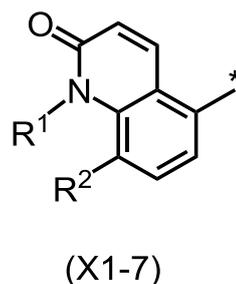
The compound as claimed in any one of claims 1 to 6, or a salt thereof, wherein n is 0, 1 or 2.

[Claim 8]

The compound as claimed in claim 1, or a salt thereof, wherein the partial structure (X) is a structure of a formula selected from the group consisting of the formulae (X1-1), (X1-2), (X1-3), (X1-4), (X1-6), and (X1-7):



and



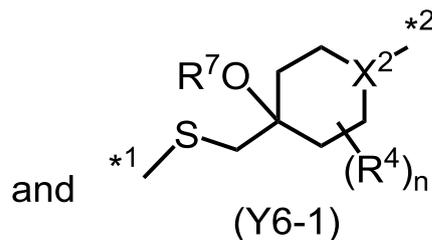
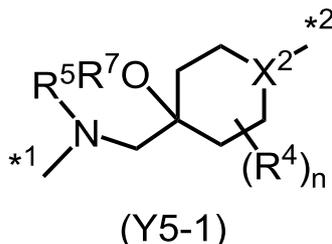
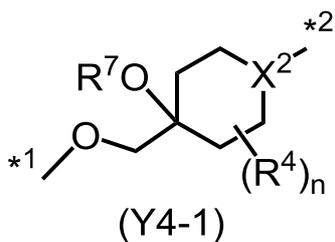
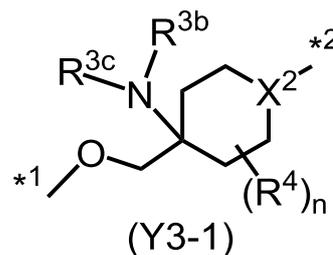
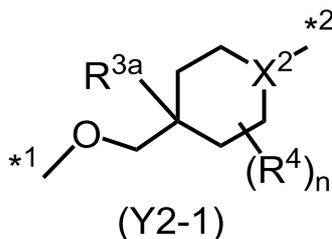
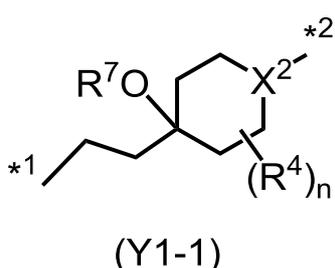
wherein * is binding point to X^1 ;

R^1 is hydrogen;

R^2 is substituent selected from (1) halogen or (2) C_{1-6} alkyl;

provided that when R^2 may be multiple, each of them may be different from each other;

the partial structure (Y) is a structure of a formula selected from the group consisting of the formulae (Y1-1), (Y2-1), (Y3-1), (Y4-1), (Y5-1), and (Y6-1):



wherein *1 is binding point to the partial structure (X);

*2 is binding point to Ring A;

R⁵ is hydrogen;

R^{3a} is (1) hydrogen or (2) halogen;

R^{3b} and R^{3c} are each hydrogen;

R⁷ is hydrogen;

R⁴ is substituent selected from (1) halogen, (2) -O-R⁸, (3) -O-C(=O)-R⁹, or (4) cyano;

R⁸ is (1) hydrogen or (2) C₁₋₆ alkyl;

R⁹ is (1) C₁₋₆ alkyl or (2) C₁₋₆ alkoxy;

n is an integer of 0 to 2;

provided that when n is 2, each of R⁴, R⁸, and R⁹ may be different from each other and may be substituted on the same carbon atom;

X² is N or CH;

provided that when X² is CH, H of the group may be replaced with R⁴ which is defined as above, wherein multiple R⁴s in formula (1) may be the same or different from each other; and

Ring A is phenyl or pyridyl which may have 1 to 3 groups independently selected from:

(a) halogen;

(b) C₁₋₆ alkoxy which may have (i) halogen and (ii) C₁₋₆ alkoxy; or

(c) aralkyloxy which may have one or more of the same or different C₁₋₆ alkoxy

which may have one or more of the same or different halogen; or

quinolyl which may have 1 to 2 halogen.

[Claim 9]

The compound as claimed in claim 1, which is selected from the group consisting of the following compounds:

- 5-{{[4-amino-1-(3,5-dichloropyridin-2-yl)piperidin-4-yl]methoxy}-8-fluoro-3,4-dihydroquinolin-2(1H)-one};
- 5-{{[4-amino-1-(4-chloro-2-fluorophenyl)piperidin-4-yl]methoxy}-8-chloro-3,4-dihydroquinolin-2(1H)-one};
- 5-{{[4-amino-1-(4-chloro-2-fluorophenyl)piperidin-4-yl]methoxy}-8-chloroquinolin-2(1H)-one};
- 5-{{[1-(4-chlorophenyl)-4-hydroxypiperidin-4-yl]methoxy}-8-fluoro-3,4-dihydroquinolin-2(1H)-one};
- 5-{{[1-(4-chloro-2-fluorophenyl)-4-hydroxypiperidin-4-yl]methoxy}-8-fluoro-3,4-dihydroquinolin-2(1H)-one};
- 5-{{[1-(4-ethoxy-2-fluorophenyl)-4-hydroxypiperidin-4-yl]methoxy}-8-fluoro-3,4-dihydroquinolin-2(1H)-one};
- 8-chloro-5-{{[1-(4-chloro-2,6-difluorophenyl)-4-hydroxypiperidin-4-yl]methoxy}-3,4-dihydroquinolin-2(1H)-one};
- 5-{{[1-(4-bromo-2-fluorophenyl)-4-hydroxypiperidin-4-yl]methoxy}-7,8-difluoro-3,4-dihydroquinolin-2(1H)-one};
- 5-{{[1-(4-chloro-2-fluorophenyl)-4-hydroxypiperidin-4-yl]methoxy}quinolin-2(1H)-one};
- 8-chloro-5-{{[1-(3,5-dichloropyridin-2-yl)-4-hydroxypiperidin-4-yl]methoxy}-3,4-dihydroquinolin-2(1H)-one};
- 8-fluoro-5-{{[1-(2-fluoro-4-{{[4-(trifluoromethoxy)benzyl]oxy}phenyl)-4-hydroxypiperidin-4-yl]methoxy}-3,4-dihydroquinolin-2(1H)-one};
- 8-chloro-5-{{[1-[4-chloro-2-fluoro-5-(2-methoxyethoxy)phenyl]-4-hydroxypiperidin-4-yl]methoxy}-3,4-dihydroquinolin-2(1H)-one};
- 5-{{[1-(4-chloro-2-fluorophenyl)-4-hydroxypiperidin-4-yl]methoxy}-7-fluoro-3,4-dihydroquinolin-2(1H)-one};
- 5-{{[1-(2,4-dichloro-5-fluorophenyl)-4-hydroxypiperidin-4-yl]methoxy}-7-fluoro-8-methyl-3,4-dihydroquinolin-2(1H)-one};
- 8-chloro-7-fluoro-5-{{[4-hydroxy-1-(2,4,6-trifluorophenyl)piperidin-4-yl]methoxy}-

3,4-dihydroquinolin-2(1H)-one;

5-{[(3R,4R)-1-(3,5-dichloropyridin-2-yl)-3,4-dihydroxypiperidin-4-yl]methoxy}-8-fluoro-3,4-dihydroquinolin-2(1H)-one;

5-{[(3S,4S)-1-(3,5-dichloropyridin-2-yl)-3,4-dihydroxypiperidin-4-yl]methoxy}-8-fluoro-3,4-dihydroquinolin-2(1H)-one;

5-{[(3R,4R)-1-(4-chloro-2-fluorophenyl)-3,4-dihydroxypiperidin-4-yl]methoxy}-8-fluoro-3,4-dihydroquinolin-2(1H)-one;

5-{[(3R,4R)-1-(4-chloro-2,6-difluorophenyl)-3,4-dihydroxypiperidin-4-yl]methoxy}-8-fluoro-3,4-dihydroquinolin-2(1H)-one;

5-{[(3S,4S)-1-(4-chloro-2-fluorophenyl)-3,4-dihydroxypiperidin-4-yl]methoxy}-8-fluoro-3,4-dihydroquinolin-2(1H)-one;

5-{[(3R,4R)-1-(3-bromo-6-chloroquinolin-2-yl)-3,4-dihydroxypiperidin-4-yl]methoxy}-8-fluoro-3,4-dihydroquinolin-2(1H)-one;

5-{[(3R,4R)-1-(4-bromo-2-fluorophenyl)-3,4-dihydroxypiperidin-4-yl]methoxy}-3,4-dihydroquinolin-2(1H)-one;

5-{[(3S,4R)-1-(4-chloro-2,6-difluorophenyl)-3,4-dihydroxypiperidin-4-yl]methoxy}-8-fluoro-3,4-dihydroquinolin-2(1H)-one;

5-{[(3R,4S)-1-(4-bromo-2-fluorophenyl)-3,4-dihydroxypiperidin-4-yl]methoxy}-8-chloro-3,4-dihydroquinolin-2(1H)-one;

5-{[(3R*,4R*)-1-(4-bromo-2-fluorophenyl)-3,4-dihydroxypiperidin-4-yl]methoxy}-8-fluoroquinolin-2(1H)-one;

5-({[1-(3,5-dichloropyridin-2-yl)-4-hydroxypiperidin-4-yl]methyl}amino)-8-fluoro-3,4-dihydroquinolin-2(1H)-one;

5-{{[1-(3,5-dichloropyridin-2-yl)piperidin-4-yl]methoxy}-8-fluoro-3,4-dihydroquinolin-2(1H)-one};

5-{{[1-(3,5-dichloropyridin-2-yl)-4-fluoropiperidin-4-yl]methoxy}-8-fluoro-3,4-dihydroquinolin-2(1H)-one};

5-{{[(3R*,4R*)-1-(4-chloro-2-fluorophenyl)-3-hydroxypiperidin-4-yl]methoxy}-8-fluoro-3,4-dihydroquinolin-2(1H)-one};

5-{{[(3R,4S)-1-(4-chloro-2,6-difluorophenyl)-3-fluoro-4-hydroxypiperidin-4-yl]methoxy}-8-fluoro-3,4-dihydroquinolin-2(1H)-one};

5-{{[(3S,4R)-1-(4-chloro-2,6-difluorophenyl)-3-fluoro-4-hydroxypiperidin-4-yl]methoxy}-8-fluoro-3,4-dihydroquinolin-2(1H)-one};

5-[[(3R,4R)-1-(4-chloro-2,6-difluorophenyl)-3-fluoro-4-hydroxypiperidin-4-yl]-methoxy]-8-fluoro-3,4-dihydroquinolin-2(1H)-one;

5-[[(3S,4S)-1-(4-chloro-2,6-difluorophenyl)-3-fluoro-4-hydroxypiperidin-4-yl]-methoxy]-8-fluoro-3,4-dihydroquinolin-2(1H)-one;

(3R,4R)-1-(4-chloro-2,6-difluorophenyl)-4-[[(8-fluoro-2-oxo-1,2,3,4-tetrahydroquinolin-5-yl)oxy]methyl]-4-hydroxypiperidin-3-yl ethyl carbonate;

(3R,4R)-1-(4-chloro-2-fluorophenyl)-4-[[(8-fluoro-2-oxo-1,2,3,4-tetrahydroquinolin-5-yl)oxy]methyl]-4-hydroxypiperidin-3-yl acetate;

5-([1-(4-chloro-2-fluorophenyl)-4-hydroxypiperidin-4-yl]methyl)sulfanyl)-8-fluoro-3,4-dihydroquinolin-2(1H)-one;

5-{2-[1-(4-chloro-2,6-difluorophenyl)-4-hydroxypiperidin-4-yl]ethyl}-8-fluoro-3,4-dihydroquinolin-2(1H)-one;

5-[[trans-4-(4-chloro-2-fluorophenyl)-1,4-dihydroxycyclohexyl]methoxy]-8-fluoro-3,4-dihydroquinolin-2(1H)-one;

5-[[cis-4-(4-chloro-2-fluorophenyl)-1-hydroxycyclohexyl]methoxy]-8-fluoro-3,4-dihydroquinolin-2(1H)-one;

5-[[(1R*,2R*,4R*)-4-(4-chloro-2-fluorophenyl)-1,2-dihydroxycyclohexyl]methoxy]-8-fluoro-3,4-dihydroquinolin-2(1H)-one;

5-[[(1R,2R,4S)-4-(4-chloro-2-fluorophenyl)-1,2,4-trihydroxycyclohexyl]methoxy]-8-fluoro-3,4-dihydroquinolin-2(1H)-one;

trans-1-(4-chloro-2-fluorophenyl)-4-[[(8-fluoro-2-oxo-1,2,3,4-tetrahydroquinolin-5-yl)oxy]methyl]-4-hydroxycyclohexanecarbonitrile; and

5-[[trans-4-(4-chloro-2-fluorophenyl)-1-hydroxy-4-methoxycyclohexyl]methoxy]-8-fluoro-3,4-dihydroquinolin-2(1H)-one, or a salt thereof.

[Claim 10]

The compound as claimed in claim 1, which is selected from the group consisting of the following compounds:

5-[[4-amino-1-(3,5-dichloropyridin-2-yl)piperidin-4-yl]methoxy]-8-fluoro-3,4-dihydroquinolin-2(1H)-one;

5-[[4-amino-1-(4-chloro-2-fluorophenyl)piperidin-4-yl]methoxy]-8-chloro-3,4-dihydroquinolin-2(1H)-one;

5-[[4-amino-1-(4-chloro-2-fluorophenyl)piperidin-4-yl]methoxy]-8-chloroquinolin-2(1H)-one;

5-{{1-(4-chlorophenyl)-4-hydroxypiperidin-4-yl}methoxy}-8-fluoro-3,4-dihydroquinolin-2(1H)-one;

5-{{1-(4-chloro-2-fluorophenyl)-4-hydroxypiperidin-4-yl}methoxy}-8-fluoro-3,4-dihydroquinolin-2(1H)-one;

5-{{1-(4-ethoxy-2-fluorophenyl)-4-hydroxypiperidin-4-yl}methoxy}-8-fluoro-3,4-dihydroquinolin-2(1H)-one;

8-chloro-5-{{1-(4-chloro-2,6-difluorophenyl)-4-hydroxypiperidin-4-yl}methoxy}-3,4-dihydroquinolin-2(1H)-one;

5-{{1-(4-bromo-2-fluorophenyl)-4-hydroxypiperidin-4-yl}methoxy}-7,8-difluoro-3,4-dihydroquinolin-2(1H)-one;

5-{{1-(4-chloro-2-fluorophenyl)-4-hydroxypiperidin-4-yl}methoxy}quinolin-2(1H)-one;

8-chloro-5-{{1-(3,5-dichloropyridin-2-yl)-4-hydroxypiperidin-4-yl}methoxy}-3,4-dihydroquinolin-2(1H)-one;

8-fluoro-5-{{1-(2-fluoro-4-{{4-(trifluoromethoxy)benzyl}oxy}phenyl)-4-hydroxypiperidin-4-yl}methoxy}-3,4-dihydroquinolin-2(1H)-one;

8-chloro-5-{{1-[4-chloro-2-fluoro-5-(2-methoxyethoxy)phenyl]-4-hydroxypiperidin-4-yl}methoxy}-3,4-dihydroquinolin-2(1H)-one;

5-{{1-(4-chloro-2-fluorophenyl)-4-hydroxypiperidin-4-yl}methoxy}-7-fluoro-3,4-dihydroquinolin-2(1H)-one;

5-{{1-(2,4-dichloro-5-fluorophenyl)-4-hydroxypiperidin-4-yl}methoxy}-7-fluoro-8-methyl-3,4-dihydroquinolin-2(1H)-one;

8-chloro-7-fluoro-5-{{4-hydroxy-1-(2,4,6-trifluorophenyl)piperidin-4-yl}methoxy}-3,4-dihydroquinolin-2(1H)-one;

5-{{(3R,4R)-1-(3,5-dichloropyridin-2-yl)-3,4-dihydroxypiperidin-4-yl}methoxy}-8-fluoro-3,4-dihydroquinolin-2(1H)-one;

5-{{(3S,4S)-1-(3,5-dichloropyridin-2-yl)-3,4-dihydroxypiperidin-4-yl}methoxy}-8-fluoro-3,4-dihydroquinolin-2(1H)-one;

5-{{(3R,4R)-1-(4-chloro-2-fluorophenyl)-3,4-dihydroxypiperidin-4-yl}methoxy}-8-fluoro-3,4-dihydroquinolin-2(1H)-one;

5-{{(3R,4R)-1-(4-chloro-2,6-difluorophenyl)-3,4-dihydroxypiperidin-4-yl}methoxy}-8-fluoro-3,4-dihydroquinolin-2(1H)-one;

5-{{(3S,4S)-1-(4-chloro-2-fluorophenyl)-3,4-dihydroxypiperidin-4-yl}methoxy}-8-fluoro-3,4-dihydroquinolin-2(1H)-one;

- 5-[[(3R,4R)-1-(3-bromo-6-chloroquinolin-2-yl)-3,4-dihydroxypiperidin-4-yl]-methoxy]-8-fluoro-3,4-dihydroquinolin-2(1H)-one;
- 5-[[(3R,4R)-1-(4-bromo-2-fluorophenyl)-3,4-dihydroxypiperidin-4-yl]methoxy]-3,4-dihydroquinolin-2(1H)-one;
- 5-[[(3S,4R)-1-(4-chloro-2,6-difluorophenyl)-3,4-dihydroxypiperidin-4-yl]methoxy]-8-fluoro-3,4-dihydroquinolin-2(1H)-one;
- 5-[[(3R,4S)-1-(4-bromo-2-fluorophenyl)-3,4-dihydroxypiperidin-4-yl]methoxy]-8-chloro-3,4-dihydroquinolin-2(1H)-one;
- 5-[[(3R*,4R*)-1-(4-bromo-2-fluorophenyl)-3,4-dihydroxypiperidin-4-yl]methoxy]-8-fluoroquinolin-2(1H)-one;
- 5-([1-(3,5-dichloropyridin-2-yl)-4-hydroxypiperidin-4-yl]methyl)amino)-8-fluoro-3,4-dihydroquinolin-2(1H)-one;
- 5-[[1-(3,5-dichloropyridin-2-yl)piperidin-4-yl]methoxy]-8-fluoro-3,4-dihydroquinolin-2(1H)-one;
- 5-[[1-(3,5-dichloropyridin-2-yl)-4-fluoropiperidin-4-yl]methoxy]-8-fluoro-3,4-dihydroquinolin-2(1H)-one;
- 5-[[(3R*,4R*)-1-(4-chloro-2-fluorophenyl)-3-hydroxypiperidin-4-yl]methoxy]-8-fluoro-3,4-dihydroquinolin-2(1H)-one;
- 5-[[(3R,4S)-1-(4-chloro-2,6-difluorophenyl)-3-fluoro-4-hydroxypiperidin-4-yl]-methoxy]-8-fluoro-3,4-dihydroquinolin-2(1H)-one;
- 5-[[(3S,4R)-1-(4-chloro-2,6-difluorophenyl)-3-fluoro-4-hydroxypiperidin-4-yl]-methoxy]-8-fluoro-3,4-dihydroquinolin-2(1H)-one;
- 5-[[(3R,4R)-1-(4-chloro-2,6-difluorophenyl)-3-fluoro-4-hydroxypiperidin-4-yl]-methoxy]-8-fluoro-3,4-dihydroquinolin-2(1H)-one;
- 5-[[(3S,4S)-1-(4-chloro-2,6-difluorophenyl)-3-fluoro-4-hydroxypiperidin-4-yl]-methoxy]-8-fluoro-3,4-dihydroquinolin-2(1H)-one;
- (3R,4R)-1-(4-chloro-2,6-difluorophenyl)-4-[[(8-fluoro-2-oxo-1,2,3,4-tetrahydroquinolin-5-yl)oxy]methyl]-4-hydroxypiperidin-3-yl ethyl carbonate;
- (3R,4R)-1-(4-chloro-2-fluorophenyl)-4-[[(8-fluoro-2-oxo-1,2,3,4-tetrahydroquinolin-5-yl)oxy]methyl]-4-hydroxypiperidin-3-yl acetate;
- 5-([1-(4-chloro-2-fluorophenyl)-4-hydroxypiperidin-4-yl]methyl)sulfanyl)-8-fluoro-3,4-dihydroquinolin-2(1H)-one;
- 5-{2-[1-(4-chloro-2,6-difluorophenyl)-4-hydroxypiperidin-4-yl]ethyl}-8-fluoro-3,4-dihydroquinolin-2(1H)-one;

5-{{trans-4-(4-chloro-2-fluorophenyl)-1,4-dihydroxycyclohexyl}methoxy}-8-fluoro-3,4-dihydroquinolin-2(1H)-one;

5-{{cis-4-(4-chloro-2-fluorophenyl)-1-hydroxycyclohexyl}methoxy}-8-fluoro-3,4-dihydroquinolin-2(1H)-one;

5-{{(1R*,2R*,4R*)-4-(4-chloro-2-fluorophenyl)-1,2-dihydroxycyclohexyl}methoxy}-8-fluoro-3,4-dihydroquinolin-2(1H)-one;

5-{{(1R,2R,4S)-4-(4-chloro-2-fluorophenyl)-1,2,4-trihydroxycyclohexyl}methoxy}-8-fluoro-3,4-dihydroquinolin-2(1H)-one;

trans-1-(4-chloro-2-fluorophenyl)-4-{{(8-fluoro-2-oxo-1,2,3,4-tetrahydroquinolin-5-yl)oxy}methyl}-4-hydroxycyclohexanecarbonitrile; and

5-{{trans-4-(4-chloro-2-fluorophenyl)-1-hydroxy-4-methoxycyclohexyl}methoxy}-8-fluoro-3,4-dihydroquinolin-2(1H)-one.

[Claim 11]

The compound as claimed in claim 1, which is 8-chloro-5-{{1-(4-chloro-2,6-difluorophenyl)-4-hydroxypiperidin-4-yl}methoxy}-3,4-dihydroquinolin-2(1H)-one, or a salt thereof.

[Claim 12]

The compound as claimed in claim 1, which is 8-chloro-5-{{1-(4-chloro-2,6-difluorophenyl)-4-hydroxypiperidin-4-yl}methoxy}-3,4-dihydroquinolin-2(1H)-one.

[Claim 13]

The compound as claimed in claim 1, which is 5-{{1-(4-bromo-2-fluorophenyl)-4-hydroxypiperidin-4-yl}methoxy}-7,8-difluoro-3,4-dihydroquinolin-2(1H)-one, or a salt thereof.

[Claim 14]

The compound as claimed in claim 1, which is 5-{{1-(4-bromo-2-fluorophenyl)-4-hydroxypiperidin-4-yl}methoxy}-7,8-difluoro-3,4-dihydroquinolin-2(1H)-one.

[Claim 15]

The compound as claimed in claim 1, which is 5-{{1-(2,4-dichloro-5-fluorophenyl)-4-hydroxypiperidin-4-yl}methoxy}-7-fluoro-8-methyl-3,4-dihydroquinolin-2(1H)-one, or a salt thereof.

[Claim 16]

The compound as claimed in claim 1, which is 5-{{1-(2,4-dichloro-5-fluorophenyl)-4-hydroxypiperidin-4-yl}methoxy}-7-fluoro-8-methyl-3,4-dihydroquinolin-2(1H)-one.

[Claim 17]

The compound as claimed in claim 1, which is 5-{[(3R,4R)-1-(4-chloro-2,6-difluorophenyl)-3,4-dihydropiperidin-4-yl]methoxy}-8-fluoro-3,4-dihydroquinolin-2(1H)-one, or a salt thereof.

[Claim 18]

The compound as claimed in claim 1, which is 5-{[(3R,4R)-1-(4-chloro-2,6-difluorophenyl)-3,4-dihydropiperidin-4-yl]methoxy}-8-fluoro-3,4-dihydroquinolin-2(1H)-one.

[Claim 19]

The compound as claimed in claim 1, which is (3R,4R)-1-(4-chloro-2-fluorophenyl)-4-{[(8-fluoro-2-oxo-1,2,3,4-tetrahydroquinolin-5-yl)oxy]methyl}-4-hydropiperidin-3-yl acetate, or a salt thereof.

[Claim 20]

The compound as claimed in claim 1, which is (3R,4R)-1-(4-chloro-2-fluorophenyl)-4-{[(8-fluoro-2-oxo-1,2,3,4-tetrahydroquinolin-5-yl)oxy]methyl}-4-hydropiperidin-3-yl acetate.

[Claim 21]

A pharmaceutical composition, comprising the compound as claimed in any one of claims 1 to 20, or a salt thereof and a pharmaceutically acceptable carrier.

[Claim 22]

An agent for diagnosing, preventing, and/or treating tuberculosis, comprising the compound as claimed in any one of claims 1 to 20, or a salt thereof and a pharmaceutically acceptable carrier.

Dated this 10th day of February 2017

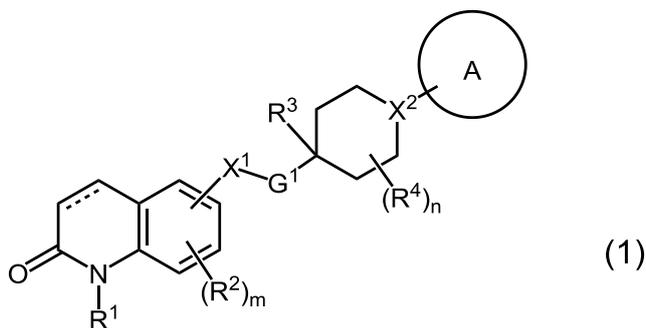


I BANERJEE
Reg.No. IN/PA-211
OF L.S.DAVAR & CO
APPLICANTS' AGENT

MARKED-UP**WE CLAIM:**

[Claim 1]

A compound of the general formula (1):

~~{Chem. 1}~~

or a salt thereof,

wherein the moiety:~~— — — — —~~represents single bond or double bond; andwherein R¹ is

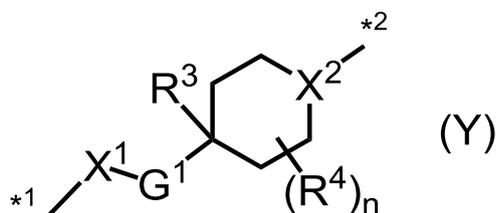
- (1) hydrogen,
- (2) amino which may have one or two of the same or different ~~C₁₋₆lower~~ alkyl or
- (3) ~~C₁₋₆lower~~ alkyl;

R² is

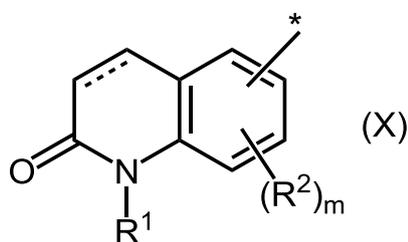
- (1) halogen,
- (2) amino which may have one or two of the same or different ~~C₁₋₆lower~~ alkyl ,
- (3) ~~C₁₋₆lower~~ alkyl,
- (4) ~~C₁₋₆lower~~ alkoxy or
- (5) hydroxy;

m is an integer of 0 to 3;

provided that when m is 2 or 3, R² may be different from each other;a partial structure (Y) of formula (1) is represented by the following partial structure:

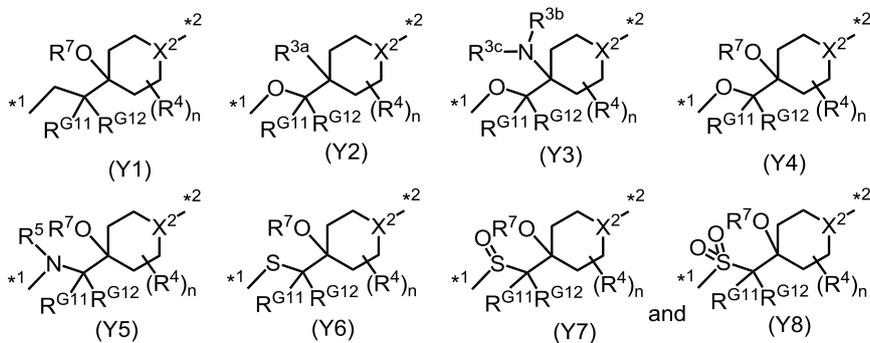


wherein *1 is a binding point to a partial structure (X) of formula (1) and *2 is a binding point to Ring A, and the partial structure (X) of formula (1) is represented by the following partial structure:



wherein * is a binding point to X¹.

the partial structure (Y) is any one of the structures selected from the group consisting of the following formulae (Y1) to (Y8):



wherein R^{3a} is

- (1) hydrogen,
- (2) carboxy,
- (3) halogen,
- (4) C₁₋₆ alkyl, which may have one or more hydroxy, or
- (5) cyano;

R^{3b} and R^{3c} are each independently

- (1) hydrogen,
- (2) C₁₋₆ alkyl, or
- (3) -C(=O)-R⁶;

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~~R^{G11} and R^{G12} are each independently hydrogen or C₁₋₆ alkyl;~~

~~the total number of carbon atoms in R^{G11} and R^{G12} is 0 to 5;~~

~~X¹ is CH₂, O, N(R⁵), S, SO or SO₂;~~

R⁵ is

- (1) hydrogen,
- (2) ~~C₁₋₆lower~~ alkyl or
- (3) ~~C₁₋₇lower~~ alkanoyl;

~~G¹ is lower alkylene;~~

~~R³ is~~

- ~~(1) hydrogen;~~
- ~~(2) carboxy;~~
- ~~(3) halogen;~~
- ~~(4) lower alkyl which may have one or more hydroxy;~~
- ~~(5) cyano;~~
- ~~(6) amino which may have one or two substituents independently selected from:~~
 - ~~(a) lower alkyl and~~
 - ~~(b) C(=O) R⁶ or~~
- ~~(7) O R⁷;~~

R⁶ is

- (1) ~~C₁₋₆lower~~ alkoxy or
- (2) ~~C₁₋₆lower~~ alkyl ~~which, wherein the C₁₋₆ alkyl~~ may have amino which may

have one or two of the same or different ~~C₁₋₆lower~~ alkyl;

R⁷ is

- (1) hydrogen,
- (2) amino,
- (3) ~~C₁₋₇lower~~ alkanoyl or
- (4) ~~C₁₋₆lower~~ alkyl;

R⁴ is

- (1) amino which may have one or two of the same or different ~~C₁₋₆lower~~ alkyl,
- (2) halogen,
- (3) cyano,
- (4) ~~C₁₋₆lower~~ alkyl,
- (5) oxo,
- (6) -O-R⁸ or

(7) -O-C(=O)-R⁹;

R⁸ is

- (1) hydrogen,
- (2) ~~C₁₋₆lower~~ alkyl,
- (3) -PH(=O)OH or
- (4) benzyl which may have one or more of the same or different ~~C₁₋₆lower~~ alkoxy;

R⁹ is

- (1) ~~C₁₋₆lower~~ alkyl,
- (2) -G²-COOH,
- (3) amino which may have one or two of the same or different ~~C₁₋₆lower~~ alkyl,
- (4) ~~C₁₋₆lower~~ alkoxy or
- (5) pyrazinyl;

G² is ~~C₁₋₆lower~~ alkylene;

n is an integer of 0 to 8;

provided that when n is 2 or more, each of R⁴, R⁸, R⁹, and G² may be different from each other and may be substituted on the same carbon atom;

X² is N or CH;

provided that when X² is CH, H of the group may be ~~substituted-replaced~~ with R⁴ which is defined as above ~~or may be different from the other R⁴, wherein multiple R⁴s in formula (1) may be the same or different from each other; and~~

Ring A is

- (1) aryl which may have one or more substituents, or
- (2) heterocyclyl which may have one or more substituents;—

~~— a moiety of formula:—~~

~~{Chem. 2}~~

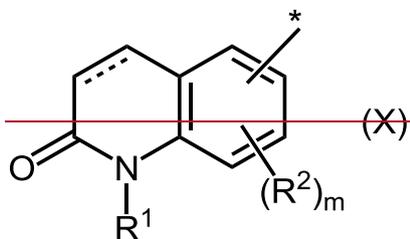


~~represents single bond or double bond.~~

[Claim 2]

The compound of as claimed in claim 1, or a salt thereof, wherein the partial structure (X):—

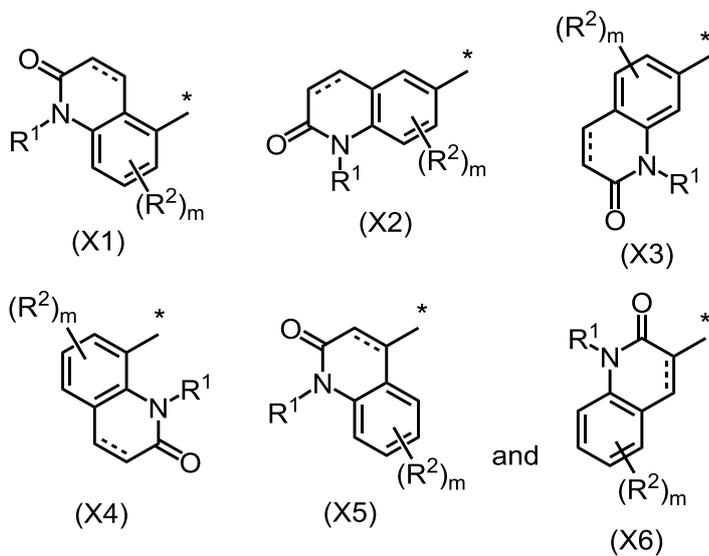
~~{Chem. 3}~~



wherein * is binding point to X^+ ; and other symbols are as defined in claim 1;

is any one of the structures selected from the group consisting of the following formulae (X1) to (X6):

{Chem. 4}



wherein the symbols are as defined in the above and claim 1.

{Claim 3}

The compound of either claim 1 or 2, or a salt thereof, wherein the partial structure (Y) :-

{Chem. 5}

(d) hydroxy;

(e) ~~C₁₋₆lower~~ alkyl which may have one or more substituents independently selected from:

(i) halogen,

(ii) hydroxy,

(iii) ~~C₁₋₆lower~~ alkoxy, and

(iv) aryloxy which may have one or more of the same or different halogen ;

(f) ~~C₁₋₆lower~~ alkoxy which may have one or more substituents independently selected from:

(i) halogen,

(ii) ~~C₁₋₆lower~~ alkoxy which may have one or more of the same or different ~~C₁₋₆lower~~ alkoxy,

(iii) aryloxy which may have one or more of the same or different halogen ,

(iv) heterocyclyl which may have one or more of the same or different ~~C₁₋₆lower~~ alkyl which may have one or more of the same or different halogen, and

(v) amino which may have one or two of the same or different ~~C₁₋₆lower~~ alkyl;

(g) ~~C₁₋₆lower~~ alkoxy carbonyl;

(h) ~~C₁₋₆lower~~ alkylsulfanyl;

(i) aryl which may have one or more of the same or different halogen;

(j) aryloxy; and

(k) aralkyloxy which may have one or more substituents independently selected from:

(i) halogen,

(ii) ~~C₁₋₆lower~~ alkyl which may have one or more of the same or different halogen, and

(iii) ~~C₁₋₆lower~~ alkoxy which may have one or more of the same or different halogen.

[Claim ~~54~~]

The compound of as claimed in any one of claims 1 to ~~43~~, or a salt thereof, wherein R¹ is hydrogen.

[Claim ~~65~~]

The compound of [as claimed in](#) any one of claims 1 to ~~54~~, or a salt thereof, wherein R² is halogen.

[Claim ~~76~~]

The compound of [as claimed in](#) any one of claims 1 to ~~65~~, or a salt thereof, wherein m is 0, 1 or 2.

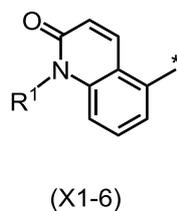
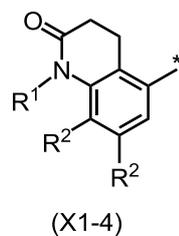
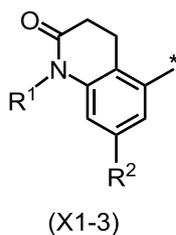
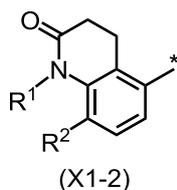
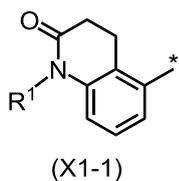
[Claim ~~87~~]

The compound of [as claimed in](#) any one of claims 1 to ~~76~~, or a salt thereof, wherein n is 0, 1 or 2.

[Claim ~~98~~]

The compound of [as claimed in](#) claim 1, or a salt thereof, wherein the partial structure (X) is a structure of a formula selected from the group consisting of the formulae (X1-1), (X1-2), (X1-3), (X1-4), ~~(X1-6)~~, and (X1-7):

~~[Chem. 7]~~



and



wherein * is binding point to X¹;

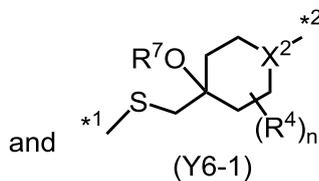
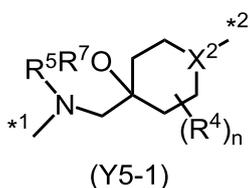
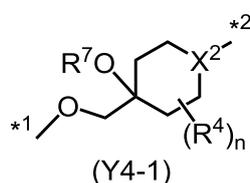
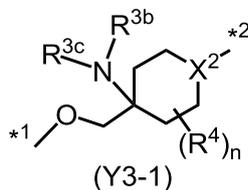
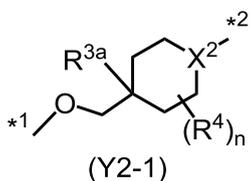
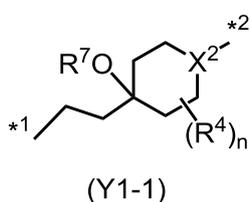
R¹ is hydrogen;

R² is substituent selected from (1) halogen or (2) ~~C₁₋₆ lower~~ alkyl;

provided that when R² may be multiple, each of them may be different from each other;

the partial structure (Y) is a structure of a formula selected from the group consisting of the formulae (Y1-1), (Y2-1), (Y3-1), (Y4-1), (Y5-1), and (Y6-1):

~~[Chem. 8]~~



wherein *1 is binding point to the partial structure of Formula (X);

*2 is binding point to Ring A;

R⁵ is hydrogen;

R^{3a} is (1) hydrogen or (2) halogen;

R^{3b} and R^{3c} are each hydrogen;

R⁷ is hydrogen;

R⁴ is substituent selected from (1) halogen, (2) -O-R⁸, (3) -O-C(=O)-R⁹, or (4) cyano;

R⁸ is (1) hydrogen or (2) C₁₋₆ lower alkyl;

R⁹ is (1) C₁₋₆ lower alkyl or (2) C₁₋₆ lower alkoxy;

n is an integer of 0 to 2;

provided that when n is 2, each of R⁴, R⁸, and R⁹ may be different from each other and may be substituted on the same carbon atom;

X² is N or CH;

provided that when X² is CH, H of the group may be substituted-replaced with R⁴ which is defined as above ~~or may be different from the other R⁴~~, wherein multiple R⁴s in formula (1) may be the same or different from each other; and

Ring A is phenyl or pyridyl which may have 1 to 3 groups independently selected from:

(a) halogen;

(b) C₁₋₆ lower alkoxy which may have (i) halogen and (ii) C₁₋₆ lower alkoxy; or

(c) aralkyloxy which may have one or more of the same or different C₁₋₆ lower alkoxy which may have one or more of the same or different halogen; or

quinolyl which may have 1 to 2 halogen.

[Claim 109]

The compound of [as claimed in](#) claim 1, which is selected from the group consisting of the following compounds:

5-{{4-amino-1-(3,5-dichloropyridin-2-yl)piperidin-4-yl}methoxy}-8-fluoro-3,4-dihydroquinolin-2(1H)-one-~~;~~~~;~~

5-{{4-amino-1-(4-chloro-2-fluorophenyl)piperidin-4-yl}methoxy}-8-chloro-3,4-dihydroquinolin-2(1H)-one-~~;~~~~;~~

5-{{4-amino-1-(4-chloro-2-fluorophenyl)piperidin-4-yl}methoxy}-8-chloroquinolin-2(1H)-one-~~;~~~~;~~

5-{{1-(4-chlorophenyl)-4-hydroxypiperidin-4-yl}methoxy}-8-fluoro-3,4-dihydroquinolin-2(1H)-one-~~;~~~~;~~

5-{{1-(4-chloro-2-fluorophenyl)-4-hydroxypiperidin-4-yl}methoxy}-8-fluoro-3,4-dihydroquinolin-2(1H)-one-~~;~~~~;~~

5-{{1-(4-ethoxy-2-fluorophenyl)-4-hydroxypiperidin-4-yl}methoxy}-8-fluoro-3,4-dihydroquinolin-2(1H)-one-~~;~~~~;~~

8-chloro-5-{{1-(4-chloro-2,6-difluorophenyl)-4-hydroxypiperidin-4-yl}methoxy}-3,4-dihydroquinolin-2(1H)-one-~~;~~~~;~~

5-{{1-(4-bromo-2-fluorophenyl)-4-hydroxypiperidin-4-yl}methoxy}-7,8-difluoro-3,4-dihydroquinolin-2(1H)-one-~~;~~~~;~~

5-{{1-(4-chloro-2-fluorophenyl)-4-hydroxypiperidin-4-yl}methoxy}quinolin-2(1H)-one-~~;~~~~;~~

8-chloro-5-{{1-(3,5-dichloropyridin-2-yl)-4-hydroxypiperidin-4-yl}methoxy}-3,4-dihydroquinolin-2(1H)-one-~~;~~~~;~~

8-fluoro-5-{{1-(2-fluoro-4-{{4-(trifluoromethoxy)benzyl}oxy}phenyl)-4-hydroxypiperidin-4-yl}methoxy}-3,4-dihydroquinolin-2(1H)-one-~~;~~~~;~~

8-chloro-5-{{1-[4-chloro-2-fluoro-5-(2-methoxyethoxy)phenyl]-4-hydroxypiperidin-4-yl}methoxy}-3,4-dihydroquinolin-2(1H)-one-~~;~~~~;~~

5-{{1-(4-chloro-2-fluorophenyl)-4-hydroxypiperidin-4-yl}methoxy}-7-fluoro-3,4-dihydroquinolin-2(1H)-one-~~;~~~~;~~

5-{{1-(2,4-dichloro-5-fluorophenyl)-4-hydroxypiperidin-4-yl}methoxy}-7-fluoro-8-methyl-3,4-dihydroquinolin-2(1H)-one-~~;~~~~;~~

8-chloro-7-fluoro-5-{{4-hydroxy-1-(2,4,6-trifluorophenyl)piperidin-4-yl}methoxy}-3,4-dihydroquinolin-2(1H)-one-~~;~~~~;~~

5-[(3R,4R)-1-(3,5-dichloropyridin-2-yl)-3,4-dihydropiperidin-4-yl]methoxy}-8-fluoro-3,4-dihydroquinolin-2(1H)-one

5-[(3S,4S)-1-(3,5-dichloropyridin-2-yl)-3,4-dihydropiperidin-4-yl]methoxy}-8-fluoro-3,4-dihydroquinolin-2(1H)-one

5-[(3R,4R)-1-(4-chloro-2-fluorophenyl)-3,4-dihydropiperidin-4-yl]methoxy}-8-fluoro-3,4-dihydroquinolin-2(1H)-one

5-[(3R,4R)-1-(4-chloro-2,6-difluorophenyl)-3,4-dihydropiperidin-4-yl]methoxy}-8-fluoro-3,4-dihydroquinolin-2(1H)-one

5-[(3S,4S)-1-(4-chloro-2-fluorophenyl)-3,4-dihydropiperidin-4-yl]methoxy}-8-fluoro-3,4-dihydroquinolin-2(1H)-one

5-[(3R,4R)-1-(3-bromo-6-chloroquinolin-2-yl)-3,4-dihydropiperidin-4-yl]methoxy}-8-fluoro-3,4-dihydroquinolin-2(1H)-one

5-[(3R,4R)-1-(4-bromo-2-fluorophenyl)-3,4-dihydropiperidin-4-yl]methoxy}-3,4-dihydroquinolin-2(1H)-one

5-[(3S,4R)-1-(4-chloro-2,6-difluorophenyl)-3,4-dihydropiperidin-4-yl]methoxy}-8-fluoro-3,4-dihydroquinolin-2(1H)-one

5-[(3R,4S)-1-(4-bromo-2-fluorophenyl)-3,4-dihydropiperidin-4-yl]methoxy}-8-chloro-3,4-dihydroquinolin-2(1H)-one

5-[(3R*,4R*)-1-(4-bromo-2-fluorophenyl)-3,4-dihydropiperidin-4-yl]methoxy}-8-fluoroquinolin-2(1H)-one

5-([1-(3,5-dichloropyridin-2-yl)-4-hydropiperidin-4-yl]methyl)amino)-8-fluoro-3,4-dihydroquinolin-2(1H)-one

5-([1-(3,5-dichloropyridin-2-yl)piperidin-4-yl]methoxy)-8-fluoro-3,4-dihydroquinolin-2(1H)-one

5-([1-(3,5-dichloropyridin-2-yl)-4-fluoropiperidin-4-yl]methoxy)-8-fluoro-3,4-dihydroquinolin-2(1H)-one

5-[(3R*,4R*)-1-(4-chloro-2-fluorophenyl)-3-hydropiperidin-4-yl]methoxy}-8-fluoro-3,4-dihydroquinolin-2(1H)-one

5-[(3R,4S)-1-(4-chloro-2,6-difluorophenyl)-3-fluoro-4-hydropiperidin-4-yl]methoxy}-8-fluoro-3,4-dihydroquinolin-2(1H)-one

5-[(3S,4R)-1-(4-chloro-2,6-difluorophenyl)-3-fluoro-4-hydropiperidin-4-yl]methoxy}-8-fluoro-3,4-dihydroquinolin-2(1H)-one

5-[(3R,4R)-1-(4-chloro-2,6-difluorophenyl)-3-fluoro-4-hydropiperidin-4-yl]methoxy}-8-fluoro-3,4-dihydroquinolin-2(1H)-one

5-[[[(3S,4S)-1-(4-chloro-2,6-difluorophenyl)-3-fluoro-4-hydroxypiperidin-4-yl]-methoxy]-8-fluoro-3,4-dihydroquinolin-2(1H)-one-~~;~~~~]~~

(3R,4R)-1-(4-chloro-2,6-difluorophenyl)-4-[[[(8-fluoro-2-oxo-1,2,3,4-tetrahydroquinolin-5-yl)oxy]methyl]-4-hydroxypiperidin-3-yl ethyl carbonate-~~;~~~~]~~

(3R,4R)-1-(4-chloro-2-fluorophenyl)-4-[[[(8-fluoro-2-oxo-1,2,3,4-tetrahydroquinolin-5-yl)oxy]methyl]-4-hydroxypiperidin-3-yl acetate-~~;~~~~]~~

5-([[1-(4-chloro-2-fluorophenyl)-4-hydroxypiperidin-4-yl]methyl]sulfanyl)-8-fluoro-3,4-dihydroquinolin-2(1H)-one-~~;~~~~]~~

5-{2-[1-(4-chloro-2,6-difluorophenyl)-4-hydroxypiperidin-4-yl]ethyl}-8-fluoro-3,4-dihydroquinolin-2(1H)-one-~~;~~~~]~~

5-[[trans-4-(4-chloro-2-fluorophenyl)-1,4-dihydroxycyclohexyl]methoxy]-8-fluoro-3,4-dihydroquinolin-2(1H)-one-~~;~~~~]~~

5-[[cis-4-(4-chloro-2-fluorophenyl)-1-hydroxycyclohexyl]methoxy]-8-fluoro-3,4-dihydroquinolin-2(1H)-one-~~;~~~~]~~

5-[[[(1R*,2R*,4R*)-4-(4-chloro-2-fluorophenyl)-1,2-dihydroxycyclohexyl]methoxy]-8-fluoro-3,4-dihydroquinolin-2(1H)-one-~~;~~~~]~~

5-[[[(1R,2R,4S)-4-(4-chloro-2-fluorophenyl)-1,2,4-trihydroxycyclohexyl]methoxy]-8-fluoro-3,4-dihydroquinolin-2(1H)-one-~~;~~~~]~~

trans-1-(4-chloro-2-fluorophenyl)-4-[[[(8-fluoro-2-oxo-1,2,3,4-tetrahydroquinolin-5-yl)oxy]methyl]-4-hydroxycyclohexanecarbonitrile-~~;~~~~]~~ and

5-[[trans-4-(4-chloro-2-fluorophenyl)-1-hydroxy-4-methoxycyclohexyl]methoxy]-8-fluoro-3,4-dihydroquinolin-2(1H)-one, or a salt thereof.

[Claim ~~4~~10]

The compound ~~of~~ [as claimed in](#) claim 1, which is selected from the group consisting of the following compounds:

5-[[4-amino-1-(3,5-dichloropyridin-2-yl)piperidin-4-yl]methoxy]-8-fluoro-3,4-dihydroquinolin-2(1H)-one-~~;~~~~]~~

5-[[4-amino-1-(4-chloro-2-fluorophenyl)piperidin-4-yl]methoxy]-8-chloro-3,4-dihydroquinolin-2(1H)-one-~~;~~~~]~~

5-[[4-amino-1-(4-chloro-2-fluorophenyl)piperidin-4-yl]methoxy]-8-chloroquinolin-2(1H)-one-~~;~~~~]~~

5-[[1-(4-chlorophenyl)-4-hydroxypiperidin-4-yl]methoxy]-8-fluoro-3,4-dihydroquinolin-2(1H)-one-~~;~~~~]~~

5-[[1-(4-chloro-2-fluorophenyl)-4-hydroxypiperidin-4-yl]methoxy]-8-fluoro-3,4-

dihydroquinolin-2(1H)-one-1
 5-{{1-(4-ethoxy-2-fluorophenyl)-4-hydroxypiperidin-4-yl}methoxy}-8-fluoro-3,4-
 dihydroquinolin-2(1H)-one-1
 8-chloro-5-{{1-(4-chloro-2,6-difluorophenyl)-4-hydroxypiperidin-4-yl}methoxy}-
 3,4-dihydroquinolin-2(1H)-one-1
 5-{{1-(4-bromo-2-fluorophenyl)-4-hydroxypiperidin-4-yl}methoxy}-7,8-difluoro-
 3,4-dihydroquinolin-2(1H)-one-1
 5-{{1-(4-chloro-2-fluorophenyl)-4-hydroxypiperidin-4-yl}methoxy}quinolin-2(1H)-
 one-1
 8-chloro-5-{{1-(3,5-dichloropyridin-2-yl)-4-hydroxypiperidin-4-yl}methoxy}-3,4-
 dihydroquinolin-2(1H)-one-1
 8-fluoro-5-{{1-(2-fluoro-4-{{4-(trifluoromethoxy)benzyl}oxy}phenyl)-4-hydroxy-
 piperidin-4-yl}methoxy}-3,4-dihydroquinolin-2(1H)-one-1
 8-chloro-5-{{1-[4-chloro-2-fluoro-5-(2-methoxyethoxy)phenyl]-4-hydroxypiperidin-
 4-yl}methoxy)-3,4-dihydroquinolin-2(1H)-one-1
 5-{{1-(4-chloro-2-fluorophenyl)-4-hydroxypiperidin-4-yl}methoxy}-7-fluoro-3,4-
 dihydroquinolin-2(1H)-one-1
 5-{{1-(2,4-dichloro-5-fluorophenyl)-4-hydroxypiperidin-4-yl}methoxy}-7-fluoro-8-
 methyl-3,4-dihydroquinolin-2(1H)-one-1
 8-chloro-7-fluoro-5-{{4-hydroxy-1-(2,4,6-trifluorophenyl)piperidin-4-yl}methoxy}-
 3,4-dihydroquinolin-2(1H)-one-1
 5-{{(3R,4R)-1-(3,5-dichloropyridin-2-yl)-3,4-dihydroxypiperidin-4-yl}methoxy}-8-
 fluoro-3,4-dihydroquinolin-2(1H)-one-1
 5-{{(3S,4S)-1-(3,5-dichloropyridin-2-yl)-3,4-dihydroxypiperidin-4-yl}methoxy}-8-
 fluoro-3,4-dihydroquinolin-2(1H)-one-1
 5-{{(3R,4R)-1-(4-chloro-2-fluorophenyl)-3,4-dihydroxypiperidin-4-yl}methoxy}-8-
 fluoro-3,4-dihydroquinolin-2(1H)-one-1
 5-{{(3R,4R)-1-(4-chloro-2,6-difluorophenyl)-3,4-dihydroxypiperidin-4-yl}methoxy}-
 8-fluoro-3,4-dihydroquinolin-2(1H)-one-1
 5-{{(3S,4S)-1-(4-chloro-2-fluorophenyl)-3,4-dihydroxypiperidin-4-yl}methoxy}-8-
 fluoro-3,4-dihydroquinolin-2(1H)-one-1
 5-{{(3R,4R)-1-(3-bromo-6-chloroquinolin-2-yl)-3,4-dihydroxypiperidin-4-yl}-
 methoxy}-8-fluoro-3,4-dihydroquinolin-2(1H)-one-1
 5-{{(3R,4R)-1-(4-bromo-2-fluorophenyl)-3,4-dihydroxypiperidin-4-yl}methoxy}-

3,4-dihydroquinolin-2(1H)-one; 1
 5-{{(3S,4R)-1-(4-chloro-2,6-difluorophenyl)-3,4-dihydropiperidin-4-yl}methoxy}-
 8-fluoro-3,4-dihydroquinolin-2(1H)-one; 1
 5-{{(3R,4S)-1-(4-bromo-2-fluorophenyl)-3,4-dihydropiperidin-4-yl}methoxy}-8-
 chloro-3,4-dihydroquinolin-2(1H)-one; 1
 5-{{(3R*,4R*)-1-(4-bromo-2-fluorophenyl)-3,4-dihydropiperidin-4-yl}methoxy}-
 8-fluoroquinolin-2(1H)-one; 1
 5-([[1-(3,5-dichloropyridin-2-yl)-4-hydroxypiperidin-4-yl]methyl]amino)-8-fluoro-
 3,4-dihydroquinolin-2(1H)-one; 1
 5-{{1-(3,5-dichloropyridin-2-yl)piperidin-4-yl}methoxy}-8-fluoro-3,4-dihydro-
 quinolin-2(1H)-one; 1
 5-{{1-(3,5-dichloropyridin-2-yl)-4-fluoropiperidin-4-yl}methoxy}-8-fluoro-3,4-
 dihydroquinolin-2(1H)-one; 1
 5-{{(3R*,4R*)-1-(4-chloro-2-fluorophenyl)-3-hydropiperidin-4-yl}methoxy}-8-
 fluoro-3,4-dihydroquinolin-2(1H)-one; 1
 5-{{(3R,4S)-1-(4-chloro-2,6-difluorophenyl)-3-fluoro-4-hydroxypiperidin-4-yl]-
 methoxy}-8-fluoro-3,4-dihydroquinolin-2(1H)-one; 1
 5-{{(3S,4R)-1-(4-chloro-2,6-difluorophenyl)-3-fluoro-4-hydroxypiperidin-4-yl]-
 methoxy}-8-fluoro-3,4-dihydroquinolin-2(1H)-one; 1
 5-{{(3R,4R)-1-(4-chloro-2,6-difluorophenyl)-3-fluoro-4-hydroxypiperidin-4-yl]-
 methoxy}-8-fluoro-3,4-dihydroquinolin-2(1H)-one; 1
 5-{{(3S,4S)-1-(4-chloro-2,6-difluorophenyl)-3-fluoro-4-hydroxypiperidin-4-yl]-
 methoxy}-8-fluoro-3,4-dihydroquinolin-2(1H)-one; 1
 (3R,4R)-1-(4-chloro-2,6-difluorophenyl)-4-{{(8-fluoro-2-oxo-1,2,3,4-tetrahydro-
 quinolin-5-yl)oxy}methyl}-4-hydroxypiperidin-3-yl ethyl carbonate; 1
 (3R,4R)-1-(4-chloro-2-fluorophenyl)-4-{{(8-fluoro-2-oxo-1,2,3,4-tetrahydroquinolin-
 5-yl)oxy}methyl}-4-hydroxypiperidin-3-yl acetate; 1
 5-([[1-(4-chloro-2-fluorophenyl)-4-hydroxypiperidin-4-yl]methyl]sulfanyl)-8-
 fluoro-3,4-dihydroquinolin-2(1H)-one; 1
 5-{2-[1-(4-chloro-2,6-difluorophenyl)-4-hydroxypiperidin-4-yl]ethyl}-8-fluoro-3,4-
 dihydroquinolin-2(1H)-one; 1
 5-{{trans-4-(4-chloro-2-fluorophenyl)-1,4-dihydroxycyclohexyl}methoxy}-8-fluoro-
 3,4-dihydroquinolin-2(1H)-one; 1
 5-{{cis-4-(4-chloro-2-fluorophenyl)-1-hydroxycyclohexyl}methoxy}-8-fluoro-3,4-

dihydroquinolin-2(1H)-one, and

5-~~[[~~(1R*,2R*,4R*)-4-(4-chloro-2-fluorophenyl)-1,2-

dihydroxycyclohexyl]methoxy}-8-fluoro-3,4-dihydroquinolin-2(1H)-one, and

5-~~[[~~(1R,2R,4S)-4-(4-chloro-2-fluorophenyl)-1,2,4-trihydroxycyclohexyl]methoxy}-

8-fluoro-3,4-dihydroquinolin-2(1H)-one, and

trans-1-(4-chloro-2-fluorophenyl)-4-~~[[~~(8-fluoro-2-oxo-1,2,3,4-tetrahydroquinolin-5-

yl)oxy]methyl)-4-hydroxycyclohexanecarbonitrile, and

5-~~[[~~trans-4-(4-chloro-2-fluorophenyl)-1-hydroxy-4-methoxycyclohexyl]methoxy}-8-

fluoro-3,4-dihydroquinolin-2(1H)-one.

[Claim 11]

The compound ~~of~~ as claimed in claim 1, which is 8-chloro-5-~~[[~~1-(4-chloro-2,6-difluorophenyl)-4-hydroxypiperidin-4-yl]methoxy}-3,4-dihydroquinolin-2(1H)-one, or a salt thereof.

[Claim 12]

The compound ~~of~~ as claimed in claim 1, which is 8-chloro-5-~~[[~~1-(4-chloro-2,6-difluorophenyl)-4-hydroxypiperidin-4-yl]methoxy}-3,4-dihydroquinolin-2(1H)-one.

[Claim 13]

The compound ~~of~~ as claimed in claim 1, which is 5-~~[[~~1-(4-bromo-2-fluorophenyl)-4-hydroxypiperidin-4-yl]methoxy]-7,8-difluoro-3,4-dihydroquinolin-2(1H)-one, or a salt thereof.

[Claim 14]

The compound ~~of~~ as claimed in claim 1, which is 5-~~[[~~1-(4-bromo-2-fluorophenyl)-4-hydroxypiperidin-4-yl]methoxy]-7,8-difluoro-3,4-dihydroquinolin-2(1H)-one.

[Claim 15]

The compound ~~of~~ as claimed in claim 1, which is 5-~~[[~~1-(2,4-dichloro-5-fluorophenyl)-4-hydroxypiperidin-4-yl]methoxy]-7-fluoro-8-methyl-3,4-dihydroquinolin-2(1H)-one, or a salt thereof.

[Claim 16]

The compound ~~of~~ as claimed in claim 1, which is 5-~~[[~~1-(2,4-dichloro-5-fluorophenyl)-4-hydroxypiperidin-4-yl]methoxy]-7-fluoro-8-methyl-3,4-dihydroquinolin-2(1H)-one.

[Claim 17]

The compound ~~of~~ as claimed in claim 1, which is 5-~~[[~~(3R,4R)-1-(4-chloro-2,6-difluorophenyl)-3,4-dihydroxypiperidin-4-yl]methoxy]-8-fluoro-3,4-dihydroquinolin-2(1H)-one, or a salt thereof.

[Claim 18]

~~The compound of as claimed in claim 1, which is 5-[(3R,4R)-1-(4-chloro-2,6-difluorophenyl)-3,4-dihydropiperidin-4-yl]methoxy]-8-fluoro-3,4-dihydroquinolin-2(1H)-one.~~

[Claim 19]

~~The compound of as claimed in claim 1, which is (3R,4R)-1-(4-chloro-2-fluorophenyl)-4-[(8-fluoro-2-oxo-1,2,3,4-tetrahydroquinolin-5-yl)oxy]methyl]-4-hydropiperidin-3-yl acetate, or a salt thereof.~~

[Claim 20]

~~The compound of as claimed in claim 1, which is (3R,4R)-1-(4-chloro-2-fluorophenyl)-4-[(8-fluoro-2-oxo-1,2,3,4-tetrahydroquinolin-5-yl)oxy]methyl]-4-hydropiperidin-3-yl acetate.~~

[Claim ~~12~~21]

A pharmaceutical composition, comprising the compound of [as claimed in](#) any one of claims 1 to ~~11~~20, or a salt thereof and a pharmaceutically acceptable carrier.

[Claim ~~13~~22]

An agent for diagnosing, preventing, and/or treating tuberculosis, comprising the compound of [as claimed in](#) any one of claims 1 to ~~11~~20, or a salt thereof and a pharmaceutically acceptable carrier.

~~{Claim 14}~~

~~The compound of any one of claims 1 to 11, or a salt thereof, for use of diagnosing, preventing, and/or treating tuberculosis.—~~

~~{Claim 15}~~

~~Use of the compound of any one of claims 1 to 11, or a salt thereof, in the manufacture of a medicament for diagnosing, preventing, and/or treating tuberculosis.—~~

~~{Claim 16}~~

~~Use of the compound of any one of claims 1 to 11, or a salt thereof, as a pharmaceutical composition.—~~

~~{Claim 17}~~

~~A method of diagnosing, preventing, and/or treating tuberculosis, comprising administering to a patient an effective amount of the compound of any one of claims 1 to 11, or a salt thereof.—~~