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 \( R^1 \) is

(1) hydrogen,
(2) amino which may have one or two of the same or different \( \text{C}_{1-6} \) alkyl or
(3) \( \text{C}_{1-6} \) alkyl;

\( R^2 \) is

(1) halogen,
(2) amino which may have one or two of the same or different \( \text{C}_{1-6} \) alkyl,
(3) \( \text{C}_{1-6} \) alkyl,
(4) \( \text{C}_{1-6} \) alkoxy or
(5) hydroxy;

\( m \) is an integer of 0 to 3;

provided that when \( m \) is 2 or 3, \( R^2 \) 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 X

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) C_{1-6} alkyl, which may have one or more hydroxy, or
(5) cyano;
R^3b and R^3c are each independently

(1) hydrogen,
(2) C_{1-6} alkyl, or
(3) -C(=O)-R^6;
R^{G11} and R^{G12} are each independently hydrogen or C_{1-6} 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;
$R^8$ 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) $-O-C(=O)-R^9$;
$R^9$ 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):

![Chemical structures](image)

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 alkyl sulfanyl;
(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):

\[
\begin{align*}
\text{(X1-1)} & : \begin{array}{c}
\text{O} \\
\text{N} \\
\text{\phantom{R}R^1} \\
\ast \phantom{R^2}
\end{array} & \begin{array}{c}
\text{O} \\
\text{N} \\
\text{\phantom{R}R^1} \\
\ast \\
\text{R}^2
\end{array} & \begin{array}{c}
\text{O} \\
\text{N} \\
\text{\phantom{R}R^1} \\
\ast \\
\text{R}^2
\end{array} \\
\text{(X1-2)} & \text{(X1-3)}
\end{align*}
\]

\[
\begin{align*}
\text{(X1-4)} & : \begin{array}{c}
\text{O} \\
\text{N} \\
\text{\phantom{R}R^1} \\
\ast \\
\text{R}^2
\end{array} & \begin{array}{c}
\text{O} \\
\text{N} \\
\text{\phantom{R}R}^1 \\
\ast \\
\text{R}^2
\end{array} & \begin{array}{c}
\ast \\
\text{R}^2
\end{array} \\
\text{(X1-6)} & \text{(X1-7)}
\end{align*}
\]

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):

\[
\begin{align*}
\end{align*}
\]
wherein *1 is binding point to the partial structure (X);

*2 is binding point to Ring A;

R^5 is hydrogen;

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

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

R^7 is hydrogen;

R^4 is substituent selected from (1) halogen, (2) -O-R^8, (3) -O-C(=O)-R^9, or (4) cyano;

R^8 is (1) hydrogen or (2) C_1-6 alkyl;

R^9 is (1) C_1-6 alkyl or (2) C_1-6 alkoxy;

n is an integer of 0 to 2;

provided that when n is 2, each of R^4, R^8, and R^9 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 phenyl or pyridyl which may have 1 to 3 groups independently selected from:

(a) halogen;

(b) C_1-6 alkoxy which may have (i) halogen and (ii) C_1-6 alkoxy; or

(c) aralkyloxy which may have one or more of the same or different C_1-6 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\}-8-fluoro-3,4-dihydroquinolin-2(1H)-one;
5-\{[(3S,4S)-1-(4-chloro-2,6-difluorophenyl)-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-\{[(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-(3,5-dichloropyridin-2-yl)-4-hydroxypiperidin-4-yl]methyl\}amino\}-8-fluoro-3,4-dihydroquinolin-2(1H)-one;
5-\{[(3S,4R)-1-(3,5-dichloropyridin-2-yl)piperidin-4-yl]methoxy\}-8-fluoro-3,4-dihydroquinolin-2(1H)-one;
5-\{[(3S,4R)-1-(3,5-dichloropyridin-2-yl)piperidin-4-yl]methoxy\}-8-fluoro-3,4-dihydroquinolin-2(1H)-one;
5-\{[(3R,4R)-1-(3,5-dichloropyridin-2-yl)-4-fluoropiperidin-4-yl]methoxy\}-8-fluoro-3,4-dihydroquinolin-2(1H)-one;
5-\{[(3R,4R)-1-(3,5-dichloropyridin-2-yl)-4-fluoropiperidin-4-yl]methoxy\}-8-fluoro-3,4-dihydroquinolin-2(1H)-one;
5-\{[(3R,4R)-1-(3,5-dichloropyridin-2-yl)-4-fluoropiperidin-4-yl]methoxy\}-8-fluoro-3,4-dihydroquinolin-2(1H)-one;
5-\{[(3R,4R)-1-(3,5-dichloropyridin-2-yl)-4-fluoropiperidin-4-yl]methoxy\}-8-fluoro-3,4-dihydroquinolin-2(1H)-one;
5-\{[(3S,4R)-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-2,6-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-[(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-dihydroxy cyclohexyl]methoxy]-8-fluoro-3,4-dihydroquinolin-2(1H)-one;
5-[(cis-4-(4-chloro-2-fluorophenyl)-1-hydroxy cyclohexyl]methoxy]-8-fluoro-3,4-dihydroquinolin-2(1H)-one;
5-([(1R*,2R*,4R*)-4-(4-chloro-2-fluorophenyl)-1,2-dihydroxy cyclohexyl]methoxy]-8-fluoro-3,4-dihydroquinolin-2(1H)-one;
5-([(1R,2R,4S)-4-(4-chloro-2-fluorophenyl)-1,2,4-trihydroxy cyclohexyl]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-hydroxy cyclohexanecarbonitrile; and
5-[(trans-4-(4-chloro-2-fluorophenyl)-1-hydroxy-4-methoxy cyclohexyl]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}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-2,6-difluorophenyl)-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-dihydroxypiperidin-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-dihydroxypiperidin-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-hydroxypiperidin-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-hydroxypiperidin-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
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:

![Diagram of partial structure](image)

wherein * is a binding point to X

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

![Diagram of structures Y1 to Y8](image)

wherein R³ is:

1. hydrogen,
2. carboxy,
3. halogen,
4. C₁₋₆ alkyl, which may have one or more hydroxy, or
5. cyano;
6. R³a and R³b are each independently
7. hydrogen,
8. C₁₋₆ alkyl, or
9. -(C=O)-R³c;
$R^G_{11}$ and $R^G_{12}$ are each independently hydrogen or C$_{1-6}$ alkyl;
the total number of carbon atoms in $R^G_{11}$ and $R^G_{12}$ is 0 to 5;
$X^1$ is CH$_2$, O, N(R$_5$), S, SO or SO$_2$.

$R^3$ is
1. hydrogen,
2. C$_{1-6}$ lower alkyl or
3. C$_{1-7}$ lower alkanoyl;
$G^2$ is lower alkylenes,
$R^5$ 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)-R$_6$
or
7. -O-R$_7$.

$R^6$ is
1. C$_{1-6}$ lower alkoxy or
2. C$_{1-6}$ lower alkyl which wherein the C$_{1-6}$ alkyl may have amino which may have one or two of the same or different C$_{1-6}$ lower alkyl;
$R^7$ is
1. hydrogen,
2. amino,
3. C$_{1-6}$ lower alkanoyl or
4. C$_{1-6}$ lower alkyl;
$R^8$ is
1. amino which may have one or two of the same or different C$_{1-6}$ lower alkyl,
2. halogen,
3. cyano,
4. C$_{1-6}$ lower alkyl,
5. oxo,
6. -O-R$_8$ or
(7) \(-\text{O}-\text{C}(=\text{O})-\text{R}^8\); 
\(\text{R}^8\) is
(1) hydrogen, 
(2) \(\text{C}_{1-6}\) alkyl, 
(3) \(-\text{PH}(=\text{O})\text{OH}\) or 
(4) benzyl which may have one or more of the same or different \(\text{C}_{1-6}\) alkoxy; 
\(\text{R}^9\) is
(1) \(\text{C}_{1-6}\) alkyl, 
(2) \(-\text{G}^2\text{-COOH}\), 
(3) amino which may have one or two of the same or different \(\text{C}_{1-6}\) alkyl, 
(4) \(\text{C}_{1-6}\) alkoxy or 
(5) \(\text{pyrazinyl}\); 
\(\text{G}^2\) is \(\text{C}_{1-6}\) alkylene; 
n is an integer of 0 to 8; 
provided that when \(n\) is 2 or more, each of \(\text{R}^4, \text{R}^8, \text{R}^9,\) and \(\text{G}^2\) may be different from each other and may be substituted on the same carbon atom; 
\(X^2\) is \(\text{N}\) or \(\text{CH}\); 
provided that when \(X^2\) is \(\text{CH}\), \(H\) of the group may be substituted with \(\text{R}^4\) which is defined as above or may be different from the other \(\text{R}^4\) wherein multiple \(\text{R}^4\)'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—
[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):

\[ \text{Chem. 4} \]

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

\[ \text{Chem. 5} \]

The compound of either claim 1 or 2, or a salt thereof, wherein the partial structure (Y):
wherein *1 is binding point to the partial structure of Formula (X); *2 is binding point to Ring A; and other symbols are as defined in claim 1.
is any one of the structures selected from the group consisting of the following formulae (Y1) to (Y8):
(d) hydroxy;

(e) $C_{1-6}$ alkyl which may have one or more substituents independently selected from:
   (i) halogen,
   (ii) hydroxy,
   (iii) $C_{1-6}$ alkoxy, and
   (iv) aryloxy which may have one or more of the same or different halogen;

(f) $C_{1-6}$ alkoxy which may have one or more substituents independently selected from:
   (i) halogen,
   (ii) $C_{1-6}$ alkoxy which may have one or more of the same or different halogen,
   (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 $C_{1-6}$ 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 $C_{1-6}$ alkyl;

(g) $C_{1-6}$ alkoxy carbonyl;

(h) $C_{1-6}$ 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) $C_{1-6}$ alkyl which may have one or more of the same or different halogen, and
   (iii) $C_{1-6}$ 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 R$^1$ is hydrogen.

[Claim 65]
The compound as claimed in any one of claims 1 to 5, or a salt thereof, wherein R² is halogen.

[Claim 26] The compound as claimed in any one of claims 1 to 6, or a salt thereof, wherein m is 0, 1 or 2.

[Claim 27] The compound as claimed in any one of claims 1 to 6, or a salt thereof, wherein n is 0, 1 or 2.

[Claim 28] 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):

\[ \text{Chem. 7} \]

\[
\begin{align*}
(X1-1) & \quad (X1-2) & \quad (X1-3) \\
(X1-4) & \quad (X1-6) & \quad (X1-7)
\end{align*}
\]

wherein * is binding point to X¹; $R^1$ is hydrogen; $R^2$ is substituent selected from (1) halogen or (2) C₁₋₆ 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):

[Chem. 8]
wherein *1 is binding point to the partial structure of Formula (X);

*2 is binding point to Ring A;

R³ is hydrogen;
R³a is (1) hydrogen or (2) halogen;
R³b and R³c 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 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
quinonyl which may have 1 to 2 halogen.

[Claim 409]
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-chloroquinolinin-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]quolin-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]methyl oxy)-8-fluoro-3,4-dihydroquinolin-2(1H)-one
5-[(3R,4S)-1-(3,5-dichloropyridin-2-yl)-3,4-dihydroxypiperidin-4-yl]methyl oxy)-8-fluoro-3,4-dihydroquinolin-2(1H)-one
5-[(3R,4R)-1-(4-chloro-2-fluorophenyl)-3,4-dihydroxypiperidin-4-yl]methyl oxy)-8-fluoro-3,4-dihydroquinolin-2(1H)-one
5-[(3S,4R)-1-(4-chloro-2-fluorophenyl)-3,4-dihydroxypiperidin-4-yl]methyl oxy)-8-fluoro-3,4-dihydroquinolin-2(1H)-one
5-[(3R,4S)-1-(4-chloro-2-fluorophenyl)-3,4-dihydroxypiperidin-4-yl]methyl oxy)-8-fluoro-3,4-dihydroquinolin-2(1H)-one
5-[(3R,4R)-1-(3-bromo-6-chlorquinolin-2-yl)-3,4-dihydroxypiperidin-4-yl]methyl oxy)-8-fluoro-3,4-dihydroquinolin-2(1H)-one
5-[(3R,4R)-1-(4-bromo-2-fluorophenyl)-3,4-dihydroxypiperidin-4-yl]methyl oxy)-8-fluoro-3,4-dihydroquinolin-2(1H)-one
5-[(3R,4S)-1-(4-chloro-2-fluorophenyl)-3,4-dihydroxypiperidin-4-yl]methyl oxy)-8-fluoro-3,4-dihydroquinolin-2(1H)-one
5-[(3R,4S)-1-(4-bromo-2-fluorophenyl)-3,4-dihydroxypiperidin-4-yl]methyl oxy)-8-fluoro-3,4-dihydroquinolin-2(1H)-one
5-[(3R,4R)-1-(3,5-dichloropyridin-2-yl)-4-hydroxy piperidin-4-yl]methyl(3H)pyridin-4-yl]methyl oxy)-8-fluoro-3,4-dihydroquinolin-2(1H)-one
5-[(3S,4S)-1-(3,5-dichloropyridin-2-yl)piperidin-4-yl]methyl oxy)-8-fluoro-3,4-dihydroquinolin-2(1H)-one
5-[(3R,4S)-1-(3,5-dichloropyridin-2-yl)-4-fluoropiperidin-4-yl]methyl oxy)-8-fluoro-3,4-dihydroquinolin-2(1H)-one
5-[(3R*,4R*)-1-(4-chloro-2-fluorophenyl)-3-hydroxy piperidin-4-yl]methyl oxy)-8-fluoro-3,4-dihydroquinolin-2(1H)-one
5-[(3S,4R)-1-(4-chloro-2-fluorophenyl)-3-fluoro-4-hydroxy piperidin-4-yl]methyl oxy)-8-fluoro-3,4-dihydroquinolin-2(1H)-one
The compound of as claimed in claim 1, which is selected from the group consisting of the following compounds:

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 41]
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-(trifluromethoxy)benzyl]oxy)phenyl)-4-hydroxypiperidin-4-yl)methoxy]-3,4-dihydroquinolin-2(1H)-one-

8-chloro-5-[(1-(4-chloro-2-fluoro-5-(2-methoxypyridin-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-(4-bromo-2-fluorophenyl)-3,4-dihydroxypiperidin-4-yl)methoxy]-
3,4-dihydroquinolin-2(1H)-one-8-fluoro-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]-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-
5-[[1-(3,5-dichloropyridin-2-yl)-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-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-dihydroxypiperidin-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-hydroxypiperidin-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-hydroxypiperidin-3-yl acetate.

[Claim 21]
A pharmaceutical composition, comprising the compound of 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 of as claimed in any one of claims 1 to 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.