CLAIMS

1. A compound represented by the following formula (I), wherein:

R^1 represents a hydrogen atom, C_{1-6}alkyl or trifluoromethyl;

R^2 represents a hydrogen atom, C_{1-6}alkyl, halogen, -COO(C_{1-6}alkyl) or -$(CH_2)_{1-3}$COOR (R represents a hydrogen atom or C_{1-6}alkyl);

R^3 represents a hydrogen atom, C_{1-6}alkyl, amino, trifluoromethyl or -OR (R represents a hydrogen atom or C_{1-6}alkyl);

R^4 represents a hydroxyl group;

R^5 represents a hydrogen atom, C_{1-6}alkyl, a hydroxyl group or halogen;

R^6 represents a C_{1-6}alkyl, trifluoromethyl, halogen, amino, -NR^aR^b, nitro, hydroxy C_{1-6}alkyl, -$CONR^aR^b$, -COO(C_{1-6}alkyl), -COOH, -$(CH_2)_{1-3}$COOR, or -OR^a (R represents a hydrogen atom or C_{1-6}alkyl, and R^a and R^b may be the same or different from each other and represent a hydrogen atom, C_{1-6}alkyl or C_{1-6}acyl);

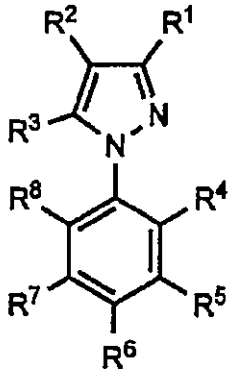
R^7 represents a hydrogen atom, C_{1-6}alkyl, -OR (R represents a hydrogen atom or C_{1-6}alkyl), or halogen; and

R^8 represents a hydrogen atom, C_{1-6}alkyl, a hydroxyl group, amino or nitro,

with the proviso that when R^1 is a hydrogen atom, R^3 is not a hydrogen atom, and the compound wherein R^1 is tert-butyl, R^3 is amino, R^4 is a hydroxyl group and R^6 is methyl is excluded,

or a salt thereof.

[Chemical formula 6]



(I)

2. The compound according to claim 1,

wherein:

R^1 represents a C_{1-6}alkyl or trifluoromethyl;
R^3 represents C_{1-6}alkyl, trifluoromethyl, or -OR (R represents a hydrogen atom or C_{1-6}alkyl),
or a salt thereof.

3. The compound according to claim 1,
wherein:
R^1 represents a C_{1-6}alkyl;
R^3 represents C_{1-6}alkyl,
or a salt there of.

4. The compound according to claim 1,
wherein:
R^1 represents a C_{1-4}alkyl;
R^2 represents a hydrogen atom, C_{1-4}alkyl, or halogen;
R^3 represents a C_{1-4}alkyl;
R^4 represents a hydroxyl group;
R^5 represents a hydrogen atom;
R^6 represents a C_{1-4}alkyl, trifluoromethyl, halogen, amino, $-NR^aR^b$, nitro, hydroxy C_{1-4}alkyl, $-CONR^aR^b$, $-COO(C_{1-4}alkyl)$, -COOH, $-(CH_2)_{1-3}COOR$, or $-OR^a$ (R represents a hydrogen atom or C_{1-4}alkyl, and R^a and R^b may be the same or different from each other and represent a hydrogen atom, C_{1-4}alkyl or C_{1-4}acyl);
R^7 represents a hydrogen atom; and
R^8 represents a hydrogen atom, C_{1-4}alkyl, a hydroxyl group, amino, or nitro,
or a salt thereof.

5. The compound according to claim 1,
wherein:
R^1 represents a methyl;
R^2 represents a hydrogen atom, methyl or halogen;
R^3 represents a methyl;
R^4 represents a hydroxyl group;
R^5 represents a hydrogen atom;
R^6 represents a C_{1-3}alkyl, trifluoromethyl, halogen, amino, $-NR^aR^b$, nitro, hydroxy C_{1-3}alkyl, $-CONR^aR^b$, $-COO(C_{1-3}alkyl)$, -COOH, $-(CH_2)_{1-3}COOR$, or $-OR^a$ (R represents a hydrogen atom or C_{1-3}alkyl, R^a and R^b may be the same or different from each other

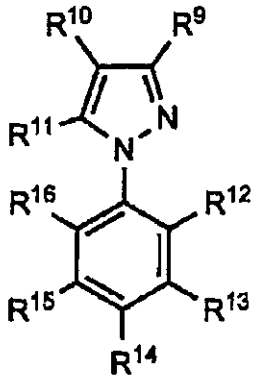
and represent a hydrogen atom, C_{1-3}alkyl or C_{1-3}acyl);
R^7 represents a hydrogen atom; and
R^8 represents a hydrogen atom,
or a salt thereof.

6. The compound which is:
2-(3,5-dimethyl-1H-pyrazol-1-yl)-4-fluorophenol
2-(5-hydroxy-3-methyl-1H-pyrazol-1-yl)phenol
2-(5-methyl-3-(trifluoromethyl)-1H-pyrazol-1-yl)phenol
2-(3,5-bistrifluoromethyl)-1H-pyrazol-1-yl)phenol
2-(3-methyl-1H-pyrazol-1-yl)phenol
2-(5-methyl-1H-pyrazol-1-yl)phenol
2-(3,4,5-trimethyl-1H-pyrazol-1-yl)phenol
2-(5-amino-3-tert-butyl-1H-pyrazol-1-yl)phenol
4-chloro-2-(3,5-dimethyl-1H-pyrazol-1-yl)phenol
2-chloro-6-(3,5-dimethyl-1H-pyrazol-1-yl)phenol
2-(4-chloro-3,5-dimethyl-1H-pyrazol-1-yl)phenol
2-(3,5-diethyl-1H-pyrazol-1-yl)phenol
3-(3,5-dimethyl-1H-pyrazol-1-yl)benzene-1,2-diol
2-(4-ethyl-3,5-dimethyl-1H-pyrazol-1-yl)phenol
5-fluoro-2-(3,4,5-trimethyl-1H-pyrazol-1-yl)phenol
4-fluoro-2-(3,4,5-trimethyl-1H-pyrazol-1-yl)phenol
2-(4-chloro-3,5-dimethyl-1H-pyrazol-1-yl)-5-fluorophenol
ethyl 1-(2-hydroxyphenyl)-3,5-dimethyl-1H-pyrazol-4-carboxylate
methyl 3-(1-(2-hydroxyphenyl)-3,5-dimethyl-1H-pyrazol-4-yl)propanoate
2-(4-butyl-3,5-dimethyl-1H-pyrazol-1-yl)phenol
2-(3,5-dimethyl-1H-pyrazol-1-yl)-5-fluorophenol
5-chloro-2-(3,5-dimethyl-1H-pyrazol-1-yl)phenol
2-(3,5-dimethyl-1H-pyrazol-1-yl)-3-nitrophenol
2-(3,5-dimethyl-1H-pyrazol-1-yl)-5-nitrophenol
3-(1-(2-hydroxyphenyl)-3,5-dimethyl-1H-pyrazol-4-yl)propionic acid
5-chloro-2-(3,4,5-trimethyl-1H-pyrazol-1-yl)phenol
5-amino-2-(3,5-dimethyl-1H-pyrazol-1-yl)phenol
5-nitro-2-(3,4,5-trimethyl-1H-pyrazol-1-yl)phenol
4-(3,5-dimethyl-1H-pyrazol-1-yl)benzene-1,3-diol
5-amino-2-(3,4,5-trimethyl-1H-pyrazol-1-yl)phenol

methyl 4-(3,5-dimethyl-1H-pyrazol-1-yl)-3-hydroxybenzene carboxylate
3-amino-2-(3,5-dimethyl-1H-pyrazol-1-yl)phenol
4-(3,5-dimethyl-1H-pyrazol-1-yl)-3-hydroxybenzene carboxylic acid
4-(3,5-dimethyl-1H-pyrazol-1-yl)-3-hydroxy-N,N-dimethyl benzamide
4-(3,5-dimethyl-1H-pyrazol-1-yl)-3-hydroxy benzamide
3-hydroxy-4-(3,4,5-trimethyl-1H-pyrazol-1-yl)benzene carboxylic acid
3-hydroxy-4-(3,4,5-trimethyl-1H-pyrazol-1-yl)benzamide
4-(4-chloro-3,5-dimethyl-1H-pyrazol-1-yl)-3-hydroxy benzamide
2-(3,5-dimethyl-1H-pyrazol-1-yl)benzene-1,3-diol
2-(3,5-dimethyl-1H-pyrazol-1-yl)-5-methylphenol
2-(3,5-dimethyl-1H-pyrazol-1-yl)-5-methoxyphenol
2-(3,5-dimethyl-1H-pyrazol-1-yl)-3-methylphenol
2-(3,5-dimethyl-1H-pyrazol-1-yl)-5-hydroxymethylphenol
2-(3,5-dimethyl-1H-pyrazol-1-yl)-5-methylaminophenol
2-(3,5-dimethyl-1H-pyrazol-1-yl)-4-methylphenol
2-(3,5-dimethyl-1H-pyrazol-1-yl)-5-trifluoromethylphenol
2-(3,5-dimethyl-1H-pyrazol-1-yl)-6-methylphenol
2-(3,5-dimethyl-1H-pyrazol-1-yl)-5-ethylphenol
2-(4-fluoro-3,5-dimethyl-1H-pyrazol-1-yl)phenol
5-bromo-2-(3,5-dimethyl-1H-pyrazol-1-yl)phenol
5-bromo-2-(4-chloro-3,5-dimethyl-1H-pyrazol-1-yl)phenol
5-bromo-2-(3,4,5-trimethyl-1H-pyrazol-1-yl)phenol
4-(3,5-dimethyl-1H-pyrazol-1-yl)-3-hydroxyphenyl acetate
4-(4-chloro-3,5-dimethyl-1H-pyrazol-1-yl)-3-hydroxyphenyl acetate
3-hydroxy-4-(3,4,5-trimethyl-1H-pyrazol-1-yl)phenyl acetate
2-(3,5-dimethyl-1H-pyrazol-1-yl)-4-methoxy-5-methylphenol
4-chloro-2-(3,5-dimethyl-1H-pyrazol-1-yl)-5-methylphenol
2-(3,5-dimethyl-1H-pyrazol-1-yl)-4,5-dimethylphenol or
4-(4-chloro-3,5-dimethyl-1H-pyrazol-1-yl)-benzene-1,3-diol
or a salt thereof.

7. An anti-fungal agent for tinea comprising a compound represented by the following formula (II), wherein:
R^9 represents a hydrogen atom, C_{1-6}alkyl or trifluoromethyl;
R^{10} represents a hydrogen atom, C_{1-6}alkyl, halogen, -COO(C_{1-6}alkyl) or -$(CH_2)_{1-3}$COOR (R represents a hydrogen atom or C_{1-6}alkyl),

R^{11} represents a hydrogen atom, $C_{1\text{-}6}$alkyl, amino, trifluoromethyl or -OR (R represents a hydrogen atom or $C_{1\text{-}6}$alkyl);
R^{12} represents a hydroxyl group;
R^{13} represents a hydrogen atom, $C_{1\text{-}6}$alkyl, a hydroxyl group or halogen;
R^{14} represents a hydrogen atom, $C_{1\text{-}6}$alkyl, trifluoromethyl, halogen, amino, $-NR^aR^b$, nitro, hydroxy $C_{1\text{-}6}$alkyl, $-CONR^aR^b$, $-COO(C_{1\text{-}6}alkyl)$, -COOH, $-(CH_2)_{1\text{-}3}COOR$, or $-OR^a$ (R represents a hydrogen atom or $C_{1\text{-}6}$alkyl, and R^a and R^b may be the same or different from each other and represent a hydrogen atom, $C_{1\text{-}6}$alkyl or $C_{1\text{-}6}$acyl);
R^{15} represents a hydrogen atom, $C_{1\text{-}6}$alkyl, -OR (R represents a hydrogen atom or $C_{1\text{-}6}$alkyl) or halogen; and
R^{16} represents a hydrogen atom, $C_{1\text{-}6}$alkyl, a hydroxyl group, amino or nitro,
or a salt thereof.
[Chemical formula 7]



(II)

8. An anti-tinea unguium agent comprising a compound of claim 1, 6 or 7 or a salt thereof.

9. The anti-fungal agent for tinea according to claim 7, which is a topical agent.

10. The anti-tinea unguium agent according to claim 8 or 9, which is a topical agent.

CLAIMS

1. A compound represented by the following formula (I), wherein:

R^1 represents a hydrogen atom, C_{1-6}alkyl or trifluoromethyl;

R^2 represents a hydrogen atom, C_{1-6}alkyl, halogen, -COO(C_{1-6}alkyl) or -$(CH_2)_{1-3}$COOR (R represents a hydrogen atom or C_{1-6}alkyl);

R^3 represents a hydrogen atom, C_{1-6}alkyl, amino, trifluoromethyl or -OR (R represents a hydrogen atom or C_{1-6}alkyl);

R^4 represents a hydroxyl group;

R^5 represents a hydrogen atom, C_{1-6}alkyl, a hydroxyl group or halogen;

R^6 represents a C_{1-6}alkyl, trifluoromethyl, halogen, amino, -NR^aR^b, nitro, hydroxy C_{1-6}alkyl, -$CONR^aR^b$, -COO(C_{1-6}alkyl), -COOH, -$(CH_2)_{1-3}$COOR, or -OR^a (R represents a hydrogen atom or C_{1-6}alkyl, and R^a and R^b may be the same or different from each other and represent a hydrogen atom, C_{1-6}alkyl or C_{1-6}acyl);

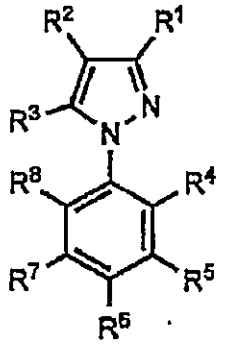
R^7 represents a hydrogen atom, C_{1-6}alkyl, -OR (R represents a hydrogen atom or C_{1-6}alkyl), or halogen; and

R^8 represents a hydrogen atom, C_{1-6}alkyl, a hydroxyl group, amino or nitro,

with the proviso that when R^1 is a hydrogen atom, R^3 is not a hydrogen atom, and the compound wherein R^1 is tert-butyl, R^3 is amino, R^4 is a hydroxyl group and R^6 is methyl is excluded,

or a salt thereof.

[Chemical formula 6]



(I)

2. The compound according to claim 1,

wherein:

R^1 represents a C_{1-6}alkyl or trifluoromethyl;
R^3 represents C_{1-6}alkyl, trifluoromethyl, or -OR (R represents a hydrogen atom or C_{1-6}alkyl),
or a salt thereof.

3. The compound according to claim 1,
wherein:
R^1 represents a C_{1-6}alkyl;
R^3 represents C_{1-6}alkyl,
or a salt there of.

4. The compound according to claim 1,
wherein:
R^1 represents a C_{1-4}alkyl;
R^2 represents a hydrogen atom, C_{1-4}alkyl, or halogen;
R^3 represents a C_{1-4}alkyl;
R^4 represents a hydroxyl group;
R^5 represents a hydrogen atom;
R^6 represents a C_{1-4}alkyl, trifluoromethyl, halogen, amino, $-NR^aR^b$, nitro, hydroxy C_{1-4}alkyl, $-CONR^aR^b$, $-COO(C_{1-4}alkyl)$, -COOH, $-(CH_2)_{1-3}COOR$, or $-OR^a$ (R represents a hydrogen atom or C_{1-4}alkyl, and R^a and R^b may be the same or different from each other and represent a hydrogen atom, C_{1-4}alkyl or C_{1-4}acyl);
R^7 represents a hydrogen atom; and
R^8 represents a hydrogen atom, C_{1-4}alkyl, a hydroxyl group, amino, or nitro,
or a salt thereof.

5. The compound according to claim 1,
wherein:
R^1 represents a methyl;
R^2 represents a hydrogen atom, methyl or halogen;
R^3 represents a methyl;
R^4 represents a hydroxyl group;
R^5 represents a hydrogen atom;
R^6 represents a C_{1-3}alkyl, trifluoromethyl, halogen, amino, $-NR^aR^b$, nitro, hydroxy C_{1-3}alkyl, $-CONR^aR^b$, $-COO(C_{1-3}alkyl)$, -COOH, $-(CH_2)_{1-3}COOR$, or $-OR^a$ (R represents a hydrogen atom or C_{1-3}alkyl, R^a and R^b may be the same or different from each other

and represent a hydrogen atom, C_{1-3}alkyl or C_{1-3}acyl);
R^7 represents a hydrogen atom; and
R^8 represents a hydrogen atom,
or a salt thereof.

6. The compound which is:
2-(3,5-dimethyl-1H-pyrazol-1-yl)-4-fluorophenol
2-(5-hydroxy-3-methyl-1H-pyrazol-1-yl)phenol
2-(5-methyl-3-(trifluoromethyl)-1H-pyrazol-1-yl)phenol
2-(3,5-bistrifluoromethyl)-1H-pyrazol-1-yl)phenol
2-(5-methyl-1H-pyrazol-1-yl)phenol
2-(3,4,5-trimethyl-1H-pyrazol-1-yl)phenol
2-(5-amino-3-tert-butyl-1H-pyrazol-1-yl)phenol
4-chloro-2-(3,5-dimethyl-1H-pyrazol-1-yl)phenol
2-chloro-6-(3,5-dimethyl-1H-pyrazol-1-yl)phenol
2-(4-chloro-3,5-dimethyl-1H-pyrazol-1-yl)phenol
2-(3,5-diethyl-1H-pyrazol-1-yl)phenol
3-(3,5-dimethyl-1H-pyrazol-1-yl)benzene-1,2-diol
2-(4-ethyl-3,5-dimethyl-1H-pyrazol-1-yl)phenol
5-fluoro-2-(3,4,5-trimethyl-1H-pyrazol-1-yl)phenol
4-fluoro-2-(3,4,5-trimethyl-1H-pyrazol-1-yl)phenol
2-(4-chloro-3,5-dimethyl-1H-pyrazol-1-yl)-5-fluorophenol
ethyl 1-(2-hydroxyphenyl)-3,5-dimethyl-1H-pyrazol-4-carboxylate
methyl 3-(1-(2-hydroxyphenyl)-3,5-dimethyl-1H-pyrazol-4-yl)propanoate
2-(4-butyl-3,5-dimethyl-1H-pyrazol-1-yl)phenol
2-(3,5-dimethyl-1H-pyrazol-1-yl)-5-fluorophenol
5-chloro-2-(3,5-dimethyl-1H-pyrazol-1-yl)phenol
2-(3,5-dimethyl-1H-pyrazol-1-yl)-3-nitrophenol
2-(3,5-dimethyl-1H-pyrazol-1-yl)-5-nitrophenol
3-(1-(2-hydroxyphenyl)-3,5-dimethyl-1H-pyrazol-4-yl)propionic acid
5-chloro-2-(3,4,5-trimethyl-1H-pyrazol-1-yl)phenol
5-amino-2-(3,5-dimethyl-1H-pyrazol-1-yl)phenol
5-nitro-2-(3,4,5-trimethyl-1H-pyrazol-1-yl)phenol
4-(3,5-dimethyl-1H-pyrazol-1-yl)benzene-1,3-diol
5-amino-2-(3,4,5-trimethyl-1H-pyrazol-1-yl)phenol

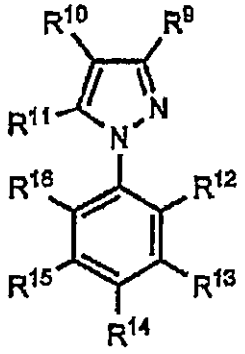
methyl 4-(3,5-dimethyl-1H-pyrazol-1-yl)-3-hydroxybenzene carboxylate
3-amino-2-(3,5-dimethyl-1H-pyrazol-1-yl)phenol
4-(3,5-dimethyl-1H-pyrazol-1-yl)-3-hydroxybenzene carboxylic acid
4-(3,5-dimethyl-1H-pyrazol-1-yl)-3-hydroxy-N,N-dimethyl benzamide
4-(3,5-dimethyl-1H-pyrazol-1-yl)-3-hydroxy benzamide
3-hydroxy-4-(3,4,5-trimethyl-1H-pyrazol-1-yl)benzene carboxylic acid
3-hydroxy-4-(3,4,5-trimethyl-1H-pyrazol-1-yl)benzamide
4-(4-chloro-3,5-dimethyl-1H-pyrazol-1-yl)-3-hydroxy benzamide
2-(3,5-dimethyl-1H-pyrazol-1-yl)benzene-1,3-diol
2-(3,5-dimethyl-1H-pyrazol-1-yl)-5-methylphenol
2-(3,5-dimethyl-1H-pyrazol-1-yl)-5-methoxyphenol
2-(3,5-dimethyl-1H-pyrazol-1-yl)-3-methylphenol
2-(3,5-dimethyl-1H-pyrazol-1-yl)-5-hydroxymethylphenol
2-(3,5-dimethyl-1H-pyrazol-1-yl)-5-methylaminophenol
2-(3,5-dimethyl-1H-pyrazol-1-yl)-4-methylphenol
2-(3,5-dimethyl-1H-pyrazol-1-yl)-5-trifluoromethylphenol
2-(3,5-dimethyl-1H-pyrazol-1-yl)-6-methylphenol
2-(3,5-dimethyl-1H-pyrazol-1-yl)-5-ethylphenol
2-(4-fluoro-3,5-dimethyl-1H-pyrazol-1-yl)phenol
5-bromo-2-(3,5-dimethyl-1H-pyrazol-1-yl)phenol
5-bromo-2-(4-chloro-3,5-dimethyl-1H-pyrazol-1-yl)phenol
5-bromo-2-(3,4,5-trimethyl-1H-pyrazol-1-yl)phenol
4-(3,5-dimethyl-1H-pyrazol-1-yl)-3-hydroxyphenyl acetate
4-(4-chloro-3,5-dimethyl-1H-pyrazol-1-yl)-3-hydroxyphenyl acetate
3-hydroxy-4-(3,4,5-trimethyl-1H-pyrazol-1-yl)phenyl acetate
2-(3,5-dimethyl-1H-pyrazol-1-yl)-4-methoxy-5-methylphenol
4-chloro-2-(3,5-dimethyl-1H-pyrazol-1-yl)-5-methylphenol
2-(3,5-dimethyl-1H-pyrazol-1-yl)-4,5-dimethylphenol or
4-(4-chloro-3,5-dimethyl-1H-pyrazol-1-yl)-benzene-1,3-diol
or a salt thereof.

7. An anti-fungal agent for tinea comprising a compound represented by the following formula (II), wherein:

R^9 represents a hydrogen atom, C_{1-6}alkyl or trifluoromethyl;

R^{10} represents a hydrogen atom, C_{1-6}alkyl, halogen, -COO(C_{1-6}alkyl) or -$(CH_2)_{1-3}$COOR (R represents a hydrogen atom or C_{1-6}alkyl),

R^{11} represents a hydrogen atom, C_{1-6}alkyl, amino, trifluoromethyl or -OR (R represents a hydrogen atom or C_{1-6}alkyl);
R^{12} represents a hydroxyl group;
R^{13} represents a hydrogen atom, C_{1-6}alkyl, a hydroxyl group or halogen;
R^{14} represents a hydrogen atom, C_{1-6}alkyl, trifluoromethyl, halogen, amino, $-NR^aR^b$, nitro, hydroxy C_{1-6}alkyl, $-CONR^aR^b$, $-COO(C_{1-6}alkyl)$, -COOH, $-(CH_2)_{1-3}COOR$, or $-OR^a$ (R represents a hydrogen atom or C_{1-6}alkyl, and R^a and R^b may be the same or different from each other and represent a hydrogen atom, C_{1-6}alkyl or C_{1-6}acyl);
R^{15} represents a hydrogen atom, C_{1-6}alkyl, -OR (R represents a hydrogen atom or C_{1-6}alkyl) or halogen; and
R^{16} represents a hydrogen atom, C_{1-6}alkyl, a hydroxyl group, amino or nitro,
or a salt thereof.
[Chemical formula 7]



(II)

8. An anti-tinea unguium agent comprising a compound of claim 1, 6 or 7 or a salt thereof.

9. The anti-fungal agent for tinea according to claim 7, which is a topical agent.

10. The anti-tinea unguium agent according to claim 8 or 9, which is a topical agent.