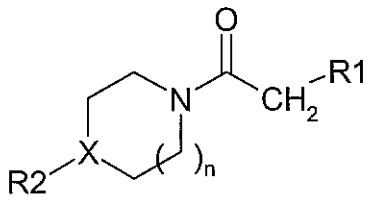
Claims:

1. Compound of general formula (I) :



(I)

in which:

n = 0 or 1;

R1 represents a linear or branched C1-C5 alkyl chain optionally substituted by at least one fluorine atom (F),

X is chosen from N and CH;

R2 is chosen from the following groups: phenyl, benzyl, phenyl or benzyl groups substituted by at least one linear or branched C1-C4 alkyl chain, phenyl or benzyl groups substituted by at least one linear or branched C1-C4 alkyl chains and substituted by at least one fluorine atom (F), phenyl groups substituted by at least one group chosen from Cl, F, CF_3, OCH_3 or OH, and the heterocycles having 6 vertices, comprising one, two or three nitrogen atoms.

2. Compound according to claim 1, characterized in that n = 1.

3. Compound according to claim 1 or 2, characterized in that R1 is a group $-CH_2CF_3$.

4. Compound according to any of the preceding claims, characterized in that X = CH.

5. Compound according to any of the claims 1 to 4, characterized in that R1 is chosen from the following groups: $-CH_2$-isopropyl; cyclopropyl, cyclobutyl, cyclopentyl, $-CH_2$-cyclopropyl, $-CH_2$-cyclobutyl, and $-CH_2$-cyclopentyl.

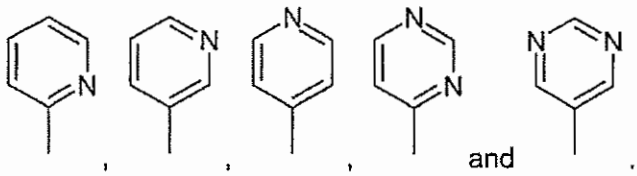
6. Compound according to any of the claims 1 to 4, characterized in that R2 is phenyl or benzyl.

7. Compound according to any of the claims 1 to 4, characterized in that R2 is phenyl substituted in meta position relative to the bond to X by a group chosen from: Cl, F, CF_3 and OCH_3.

8. Compound according to any of the claims 1 to 4, characterized in that R2 is phenyl substituted by at least one F atom.

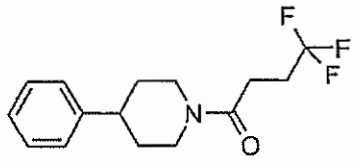
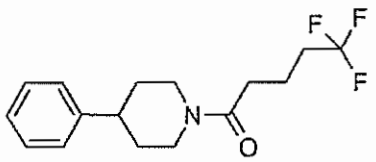
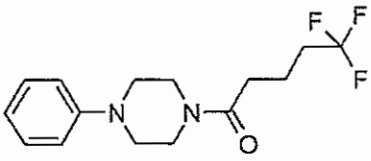
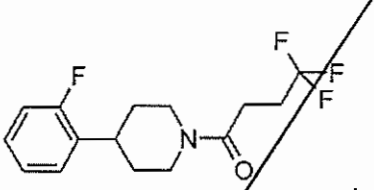
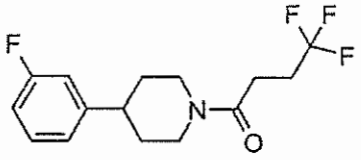
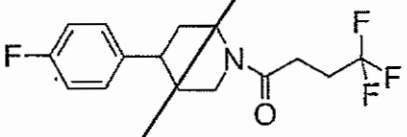
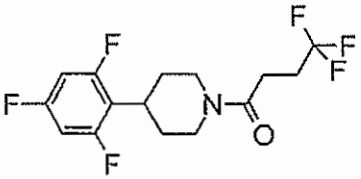
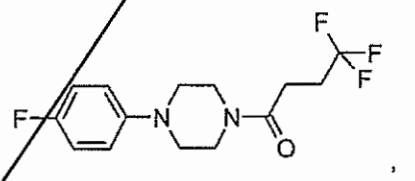
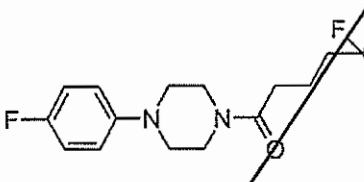
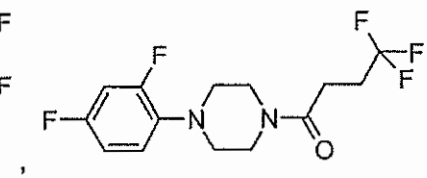
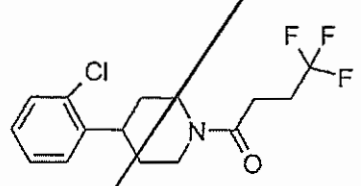
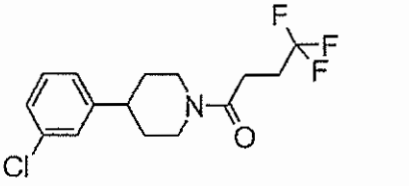
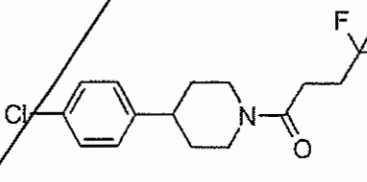
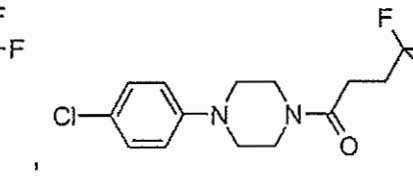
9. Compound according to any of the claims 1 to 4, characterized in that R2 is phenyl substituted in para position relative to the bond to X, by a fluorine atom F.

10. Compound according to any of the claims 1 to 4, characterized in that R2 is a group chosen from the following groups:



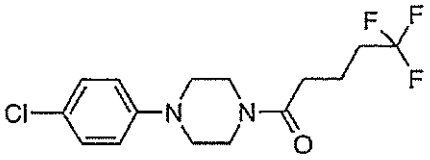
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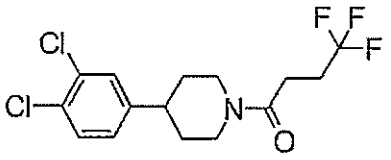
11. Compound according to claim 1, characterized in that it is chosen from the following compounds:

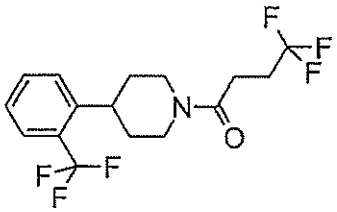

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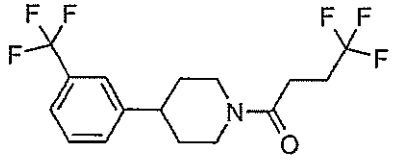
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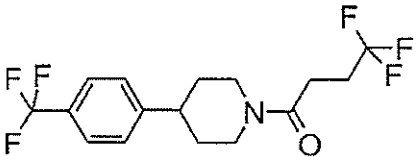
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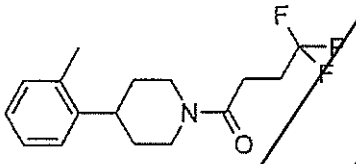


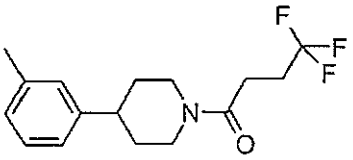


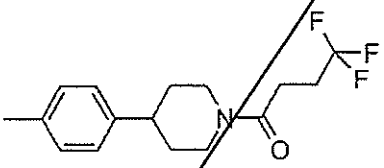


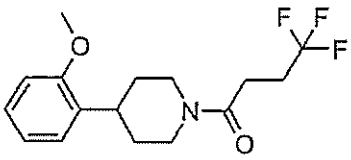


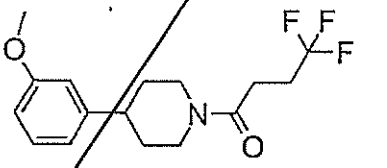


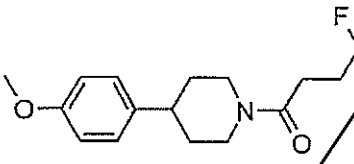


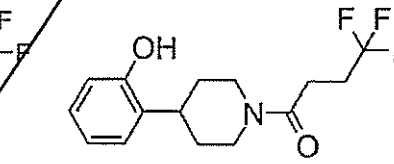


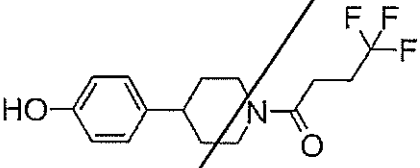


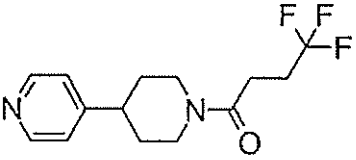


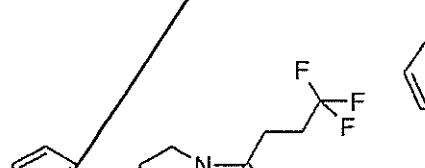


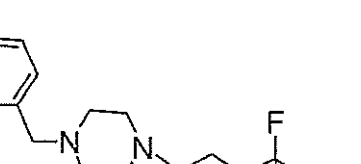


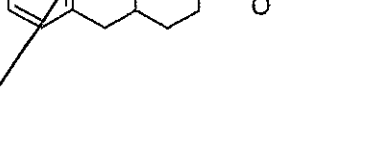


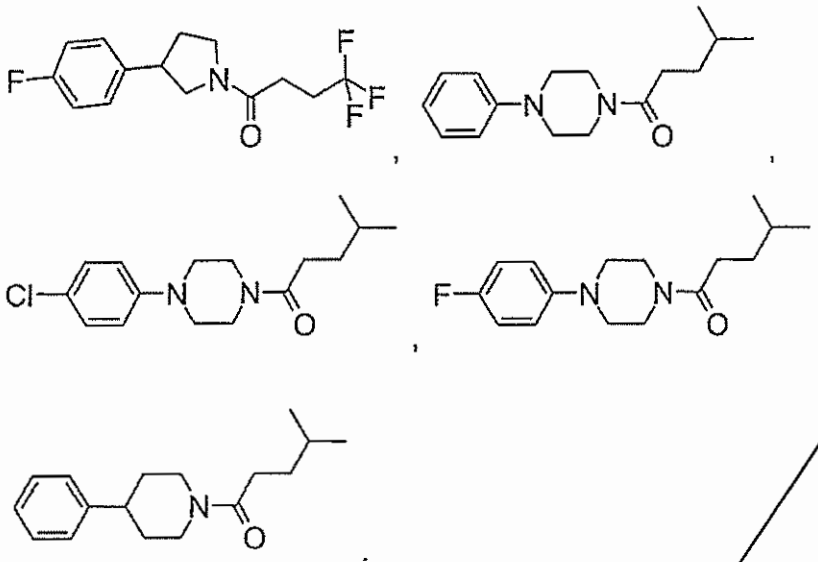






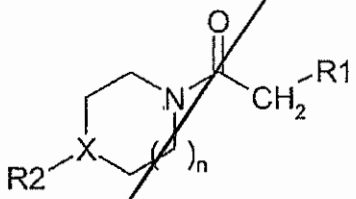






12. Compound according to any of the claims 1 to 11, for its use as medicament.

13. Compound of general formula (I):



(I)

in which:

n = 0 or 1;

R1 represents a group chosen from:

linear or branched C1-C5 alkyl chains,

linear or branched C1-C3 alkyl chains substituted by at least one fluorine atom or by a saturated or unsaturated C3-C6 cyclic group;

X is chosen from N and CH;

R2 is chosen from the following groups: phenyl, benzyl, phenyl or benzyl groups substituted by at least one linear or branched C1-C4 alkyl chain, phenyl or benzyl groups substituted by at least one linear or branched and substituted C1-C4 alkyl chains, in particular substituted by at least one fluorine atom (F), phenyl groups substituted by at least one group chosen from Cl, F, CF_3, OCH_3, OCF_3, or OH, and the heterocycles having 6 vertices, comprising one, two or three nitrogen atoms; -CH_2-isopropyl; cyclopropyl, cyclobutyl, cyclopentyl, -CH_2-cyclopropyl, -CH_2-cyclobutyl, and -CH_2-cyclopentyl,

for use in the treatment of bacterial and mycobacterial infections.

14. Compound according to any of the claims 1 to 11, for use in the treatment of bacterial and mycobacterial infections.

15. Compound according to any of the claims 1 to 11 or 13, for use in the treatment of tuberculosis, leprosy and atypical mycobacterial infections.

16. Pharmaceutical composition comprising as active ingredient at least one compound according to any of the claims 1 to 11 and a pharmaceutically acceptable excipient.

17. Pharmaceutical composition comprising, as the active ingredient, at least one compound according to any of the claims 1 to 11 or 13 and, furthermore, as the active ingredient, at least one antibiotic active against bacteria and/or mycobacteria.

18. Pharmaceutical composition comprising, as the active ingredient, at least one compound according to any of the claims 1 to 11 or 13 and, furthermore, as the active ingredient, at least one antibiotic activatable via the EthA pathway.

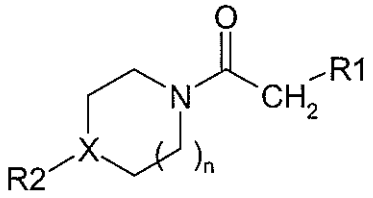
19. Pharmaceutical composition comprising, as the active ingredient, at least one compound according to any of the claims 1 to 11 or 13 and, furthermore, as the active ingredient, at least one antibiotic chosen from the thioamide family.

20. Pharmaceutical composition comprising, as the active ingredient, at least one compound according to any of the claims 1 to 11 or 13 and, furthermore, as the active ingredient, ethionamide or prothionamide.

21. Product containing at least one compound according to any one of the claims 1 to 10 or 13 and at least one antibiotic activatable via the EthA pathway, more particularly an antibiotic chosen from the thioamide family, as combination products for use in the treatment of tuberculosis, leprosy or atypical mycobacterial infections.

Claims:

1. A compound of formula (I) :



(I)

in which:

n is 0 or 1;

R1 is selected from the group consisting of: linear or branched C1-C5 alkyl optionally substituted by fluorine; linear or branched C1-C3 alkyl substituted by saturated or unsaturated C3-C6 cycloalkyl; cyclopropyl; cyclobutyl; and cyclopentyl;

X is N or CH;

R2 is selected from the group consisting of: phenyl; benzyl; phenyl substituted by linear or branched C1-C4 alkyl; benzyl substituted by linear or branched C1-C4 alkyl; phenyl substituted by linear or branched C1-C4 alkyl substituted by fluorine; benzyl substituted by linear or branched C1-C4 alkyl substituted by fluorine; phenyl substituted by one or more substituent selected from Cl, F, CF_3, OCH_3 and OH; and a six-membered heterocycle comprising one, two or three nitrogen atoms.

2. The compound according to claim 1, wherein n is 1.

3. The compound according to claim 1 or 2, wherein R1 is $-CH_2CF_3$.

4. The compound according to claim 1, 2 or 3, wherein X is CH.

5. The compound according to any one of claims 1 to 4, wherein R1 is selected from $-CH_2$-isopropyl, cyclopropyl, cyclobutyl, cyclopentyl, $-CH_2$-cyclopropyl, $-CH_2$-cyclobutyl, and $-CH_2$-cyclopentyl.

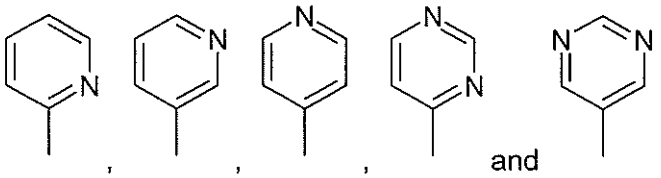
6. The compound according to any one of claims 1 to 4, wherein R2 is phenyl or benzyl.

7. The compound according to any one of claims 1 to 4, wherein R2 is phenyl substituted in meta position relative to the bond to X by a substituent selected from Cl, F, CF_3 and OCH_3.

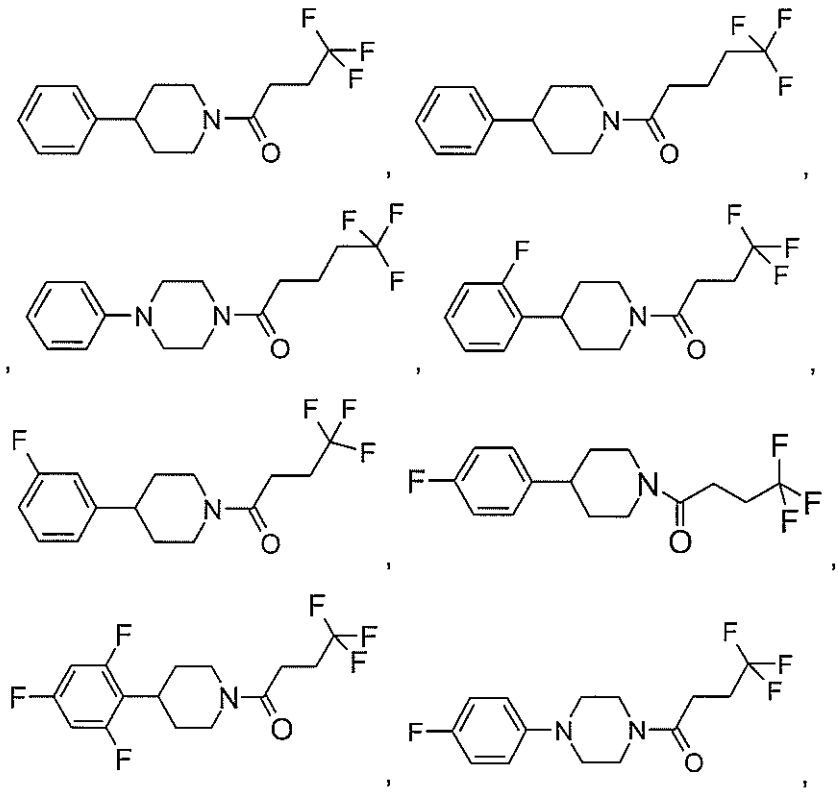
8. The compound according to any one of claims 1 to 4, wherein R2 is phenyl substituted by fluorine.

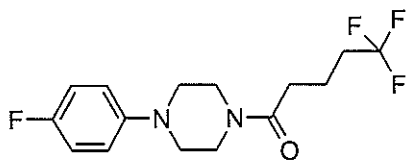
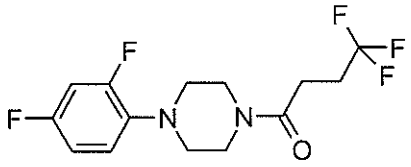
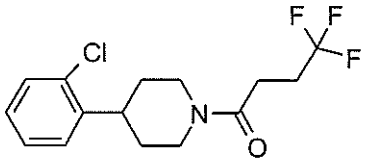
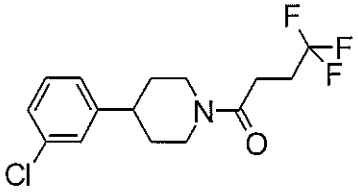
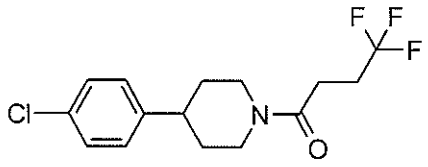
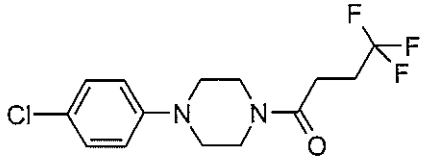
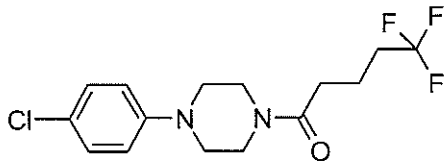
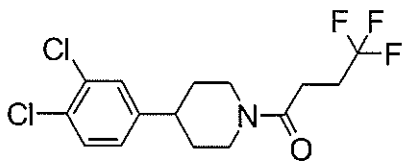
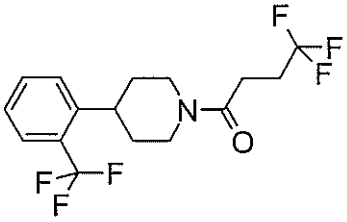
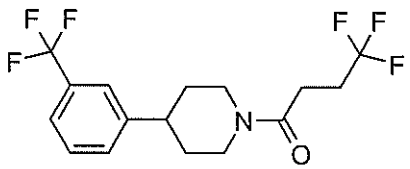
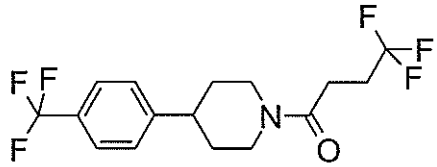
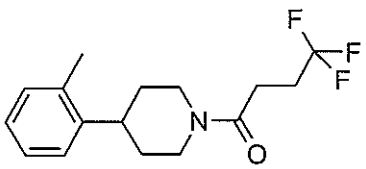
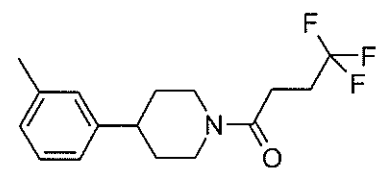
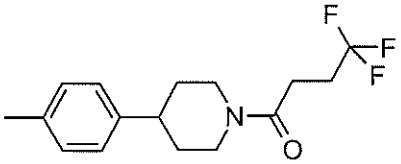
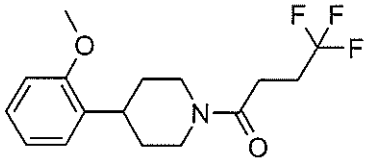
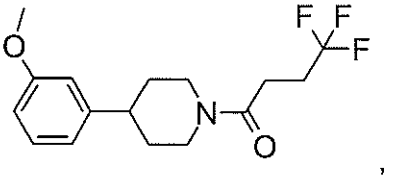
9. The compound according to any one of claims 1 to 4, wherein R2 is phenyl substituted by fluorine in para position relative to the bond to X.

10. The compound according to any one of claims 1 to 4, wherein R2 is selected from:


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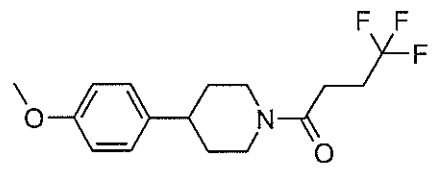
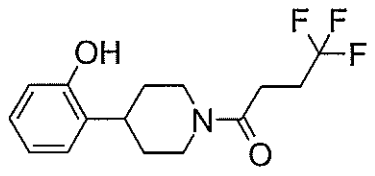
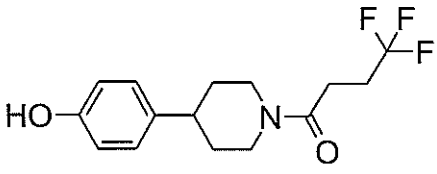
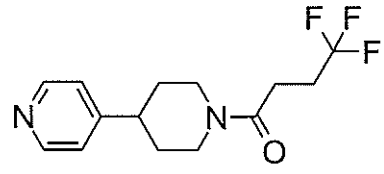
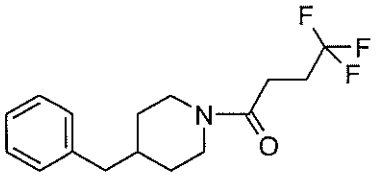
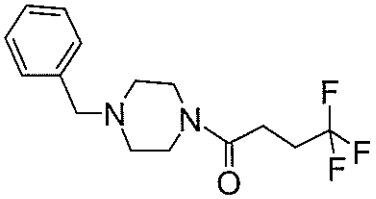
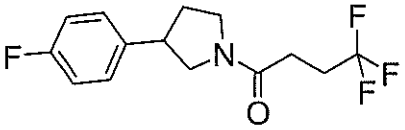
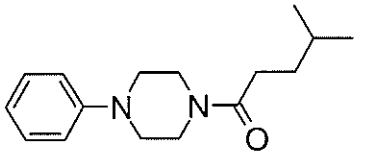
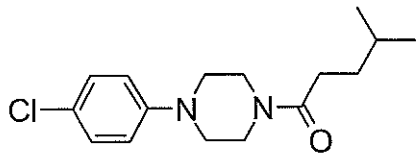
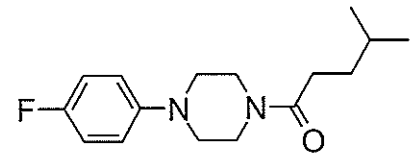
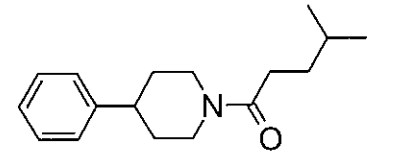
11. The compound according to claim 1, which is selected from the group consisting of:

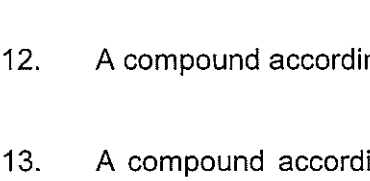



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and

12. A compound according to any one of claims 1 to 11 for use as medicament.

13. A compound according to any one of claims 1 to 11 for use in the treatment of bacterial and mycobacterial infections.

14. A compound according to any one of claims 1 to 11 for use in the treatment of tuberculosis, leprosy and atypical mycobacterial infections.

15. A pharmaceutical composition comprising as active ingredient a compound according to any one of claims 1 to 11, and a pharmaceutically acceptable excipient.

16. The pharmaceutical composition of claim 15 further comprising an antibiotic active against bacteria and/or mycobacteria.

17. The pharmaceutical composition of claim 15 further comprising an antibiotic activatable via the EthA pathway.

18. The pharmaceutical composition of claim 15 further comprising an antibiotic selected from the thioamide family.

19. The pharmaceutical composition of claim 15 further comprising ethionamide or prothionamide.

20. A combination of a compound according to any one of claims 1 to 11 and of an antibiotic activatable via the EthA pathway for the manufacture of a medicament for the treatment of tuberculosis, leprosy and atypical mycobacterial infections.