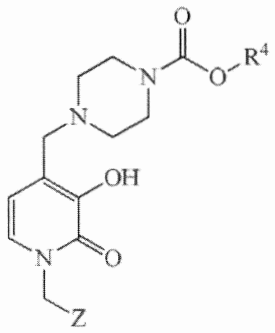
CLAIMS

1. A compound having the formula:



wherein Z is phenyl substituted with from 1 to 5 halogens chosen from fluorine and chlorine;

R^4 is C_1-C_4 linear alkyl or C_3-C_4 branched alkyl;

or a pharmaceutically acceptable salt thereof.

2. The compound according to Claim 1, wherein R^4 is methyl.

3. The compound according to Claim 1, wherein R^4 is ethyl.

4. The compound according to Claim 1, wherein R^4 is *tert*-butyl.

5. The compound according to any one of Claims 1 to 4, wherein Z is 4-chlorophenyl.

6. The compound according to any of Claims 1 to 4, wherein Z is chosen from 2-chlorophenyl, 3-chlorophenyl, 2-fluorophenyl, 3-fluorophenyl, or 4-fluorophenyl.

7. The compound according to any one of Claims 1 to 4, wherein Z is chosen from 2,3-difluorophenyl, 2,4-difluorophenyl, 2,5-difluorophenyl, 2,6-difluorophenyl, 2,3-dichlorophenyl, 2,4-dichlorophenyl, 2,5-dichlorophenyl, and 2,6-dichlorophenyl.

8. The compound according to Claim 1 is *tert*-butyl 4-{[1-(4-chlorobenzyl)-3-hydroxy-2-oxo-1,2-dihydropyridin-4-yl]methyl}piperazine-1-carboxylate.

9. ~~A~~ The compound according to Claim 1 comprising one or more compounds chosen from:

Methyl 4-{[1-(4-chlorobenzyl)-3-hydroxy-2-oxo-1,2-dihydropyridin-4-yl]methyl} piperazine-1-carboxylate;

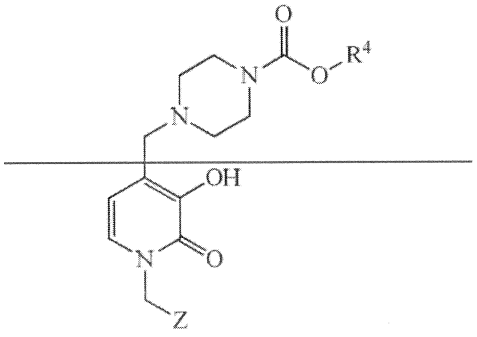
tert-Butyl 4-{[1-(4-fluorobenzyl)-3-hydroxy-2-oxo-1,2-dihydropyridin-4-yl]methyl} piperazine-1-carboxylate;

tert-Butyl 4-{[1-(3-fluorobenzyl)-3-hydroxy-2-oxo-1,2-dihydropyridin-4-yl]methyl} piperazine-1-carboxylate; and

tert-Butyl 4-{[1-(2-fluorobenzyl)-3-hydroxy-2-oxo-1,2-dihydropyridin-4-yl]methyl} piperazine-1-carboxylate.

10. A compound according to any one of Claims 1 to 9, wherein the compound is a pharmaceutically acceptable salt of an anion chosen from chloride, bromide, iodide, sulfate, bisulfate, carbonate, bicarbonate, phosphate, hydrogensulfonate, p-toluenesulfonate, methanesulfonate, formate, acetate, propionate, butyrate, pyruvate, lactate, oxalate, malonate, maleate, succinate, tartrate, fumarate, glycolate, or citrate.

~~11. A compound having the formula:~~



~~wherein Z is phenyl substituted with from 1 to 5 halogens chosen from fluorine and chlorine;~~

~~R^4 is C_1-C_4 linear alkyl or C_3-C_4 branched alkyl;~~

~~or a pharmaceutically acceptable salt thereof.~~

~~12. The compound according to Claim 11, wherein R is methyl.~~

~~13. The compound according to Claim 11, wherein R is ethyl.~~

~~14. The compound according to Claim 11, wherein R is *tert*-butyl.~~

~~15. The compound according to any of Claims 11 to 14, wherein Z is 4-chlorophenyl.~~

16. The compound according to any of Claims 11 to14, wherein Z is chosen from 2-chlorophenyl, 3-chlorophenyl, 2-fluorophenyl, 3-fluorophenyl, or 4-fluorophenyl.

17. The compound according to any of Claims 1 to 14, wherein Z is chosen from 2,3-difluorophenyl, 2,4-difluorophenyl, 2,5-difluorophenyl, 2,6-difluorophenyl, 2,3-dichlorophenyl, 2,4-dichlorophenyl, 2,5-dichlorophenyl, and 2,6-dichlorophenyl.

18. The compound *tert*-butyl 4-{[1-(4-chlorophenylsulfonyl)-3-hydroxy-2-oxo-1,2-dihydropyridin-4-yl]methyl}piperazine-1-carboxylate.

19. A compound chosen from:
Methyl 4-{[1-(4-chlorobenzyl)-3-hydroxy-2-oxo-1,2-dihydropyridin-4-yl]methyl}-piperazine-1-carboxylate;

Methyl 4-{[1-(3-chlorobenzyl)-3-hydroxy-2-oxo-1,2-dihydropyridin-4-yl]methyl}-piperazine-1-carboxylate;

Methyl 4-{[1-(2-chlorobenzyl)-3-hydroxy-2-oxo-1,2-dihydropyridin-4-yl]methyl}-piperazine-1-carboxylate;

Ethyl 4-{[1-(4-chlorobenzyl)-3-hydroxy-2-oxo-1,2-dihydropyridin-4-yl]methyl}-piperazine-1-carboxylate;

Ethyl 4-{[1-(3-chlorobenzyl)-3-hydroxy-2-oxo-1,2-dihydropyridin-4-yl]methyl}-piperazine-1-carboxylate;

Ethyl 4-{[1-(2-chlorobenzyl)-3-hydroxy-2-oxo-1,2-dihydropyridin-4-yl]methyl}-piperazine-1-carboxylate;

tert-Butyl 4-{[1-(3-chlorobenzyl)-3-hydroxy-2-oxo-1,2-dihydropyridin-4-yl]methyl}-piperazine-1-carboxylate;

tert-Butyl 4-{[1-(2-chlorobenzyl)-3-hydroxy-2-oxo-1,2-dihydropyridin-4-yl]methyl}-piperazine-1-carboxylate;

Methyl 4-{[1-(4-fluorobenzyl)-3-hydroxy-2-oxo-1,2-dihydropyridin-4-yl]methyl}
piperazine-1-carboxylate;

~~Methyl 4-{[1-(3-fluorobenzyl)-3-hydroxy-2-oxo-1,2-dihydropyridin-4-yl]methyl}-piperazine-1-carboxylate;~~

~~Methyl 4-{[1-(2-fluorobenzyl)-3-hydroxy-2-oxo-1,2-dihydropyridin-4-yl]methyl}-piperazine-1-carboxylate;~~

~~Ethyl 4-{[1-(4-fluorobenzyl)-3-hydroxy-2-oxo-1,2-dihydropyridin-4-yl]methyl}-piperazine-1-carboxylate;~~

~~Ethyl 4-{[1-(3-fluorobenzyl)-3-hydroxy-2-oxo-1,2-dihydropyridin-4-yl]methyl}-piperazine-1-carboxylate;~~

~~Ethyl 4-{[1-(2-fluorobenzyl)-3-hydroxy-2-oxo-1,2-dihydropyridin-4-yl]methyl}-piperazine-1-carboxylate;~~

~~*tert*-Butyl 4-{[1-(4-fluorobenzyl)-3-hydroxy-2-oxo-1,2-dihydropyridin-4-yl]methyl}-piperazine-1-carboxylate;~~

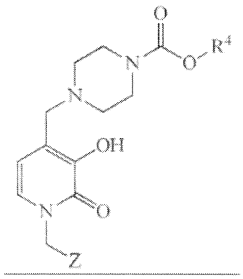
~~*tert*-Butyl 4-{[1-(3-fluorobenzyl)-3-hydroxy-2-oxo-1,2-dihydropyridin-4-yl]methyl}-piperazine-1-carboxylate; and~~

~~*tert*-Butyl 4-{[1-(2-fluorobenzyl)-3-hydroxy-2-oxo-1,2-dihydropyridin-4-yl]methyl}-piperazine-1-carboxylate.~~

~~20. A compound according to any one of Claims 11 to 19, wherein the compound is a pharmaceutically acceptable salt of an anion chosen from chloride, bromide, iodide, sulfate, bisulfate, carbonate, bicarbonate, phosphate, hydrogensulfonate, p-toluenesulfonate, methanesulfonate, formate, acetate, propionate, butyrate, pyruvate, lactate, oxalate, malonate, maleate, succinate, tartrate, fumarate, glycolate, or citrate.~~

11~~2~~1. A composition comprising:

a) one or more compounds having the formula:



wherein Z is phenyl substituted with from 1 to 5 halogens chosen from fluorine and chlorine; wherein R^4 is C_1-C_4 linear alkyl or C_3-C_4 branched alkyl; or a pharmaceutically acceptable salt thereof; and

b) one or more pharmaceutically acceptable excipients.

1222. The composition according to Claim 1121, wherein R^4 is methyl.

1323. The composition according to Claim 1121, wherein R^4 is ethyl.

1424. The composition according to Claim 1121, wherein R^4 is *tert*-butyl.

1525. The composition according to any one of Claims 1121 to 1424, wherein Z is 4-chlorophenyl.

1626. The composition according to any one of Claims 1121 to 1424, wherein Z is chosen from 2-chlorophenyl, 3-chlorophenyl, 2-fluorophenyl, 3-fluorophenyl, or 4-fluorophenyl.

1727. The composition according to any one of Claims 1121 to 1424, wherein Z is chosen from 2,3-difluorophenyl, 2,4-difluorophenyl, 2,5-difluorophenyl, 2,6-difluorophenyl, 2,3-dichlorophenyl, 2,4-dichlorophenyl, 2,5-dichlorophenyl, and 2,6-dichlorophenyl.

1828. The composition according to Claim 1121, comprising *tert*-butyl 4-{[1-(4-chloro-benzyl)-3-hydroxy-2-oxo-1,2-dihydropyridin-4-yl]methyl}piperazine-1-carboxylate.

1929. The composition according to Claim 1121, comprising one or more compounds chosen from:
Methyl 4-{[1-(4-chlorobenzyl)-3-hydroxy-2-oxo-1,2-dihydropyridin-4-yl]methyl} piperazine-1-carboxylate;

Methyl 4-{[1-(3-chlorobenzyl)-3-hydroxy-2-oxo-1,2-dihydropyridin-4-yl]methyl} piperazine-1-carboxylate;

Methyl 4-{[1-(2-chlorobenzyl)-3-hydroxy-2-oxo-1,2-dihydropyridin-4-yl]methyl} piperazine-1-carboxylate;

Ethyl 4-{[1-(4-chlorobenzyl)-3-hydroxy-2-oxo-1,2-dihydropyridin-4-yl]methyl} piperazine-1-carboxylate;

Ethyl 4-{[1-(3-chlorobenzyl)-3-hydroxy-2-oxo-1,2-dihydropyridin-4-yl]methyl} piperazine-1-carboxylate;

Ethyl 4-{[1-(2-chlorobenzyl)-3-hydroxy-2-oxo-1,2-dihydropyridin-4-yl]methyl} piperazine-1-carboxylate;

tert-Butyl 4-{[1-(3-chlorobenzyl)-3-hydroxy-2-oxo-1,2-dihydropyridin-4-yl]methyl} piperazine-1-carboxylate;

tert-Butyl 4-{[1-(2-chlorobenzyl)-3-hydroxy-2-oxo-1,2-dihydropyridin-4-yl]methyl} piperazine-1-carboxylate;

Methyl 4-{[1-(4-fluorobenzyl)-3-hydroxy-2-oxo-1,2-dihydropyridin-4-yl]methyl} piperazine-1-carboxylate;

Methyl 4-{[1-(3-fluorobenzyl)-3-hydroxy-2-oxo-1,2-dihydropyridin-4-yl]methyl} piperazine-1-carboxylate;

Methyl 4-{[1-(2-fluorobenzyl)-3-hydroxy-2-oxo-1,2-dihydropyridin-4-yl]methyl} piperazine-1-carboxylate;

Ethyl 4-{[1-(4-fluorobenzyl)-3-hydroxy-2-oxo-1,2-dihydropyridin-4-yl]methyl} piperazine-1-carboxylate;

Ethyl 4-{[1-(3-fluorobenzyl)-3-hydroxy-2-oxo-1,2-dihydropyridin-4-yl]methyl} piperazine-1-carboxylate;

Ethyl 4-{[1-(2-fluorobenzyl)-3-hydroxy-2-oxo-1,2-dihydropyridin-4-yl]methyl} piperazine-1-carboxylate;

tert-Butyl 4-{[1-(4-fluorobenzyl)-3-hydroxy-2-oxo-1,2-dihydropyridin-4-yl]methyl} piperazine-1-carboxylate;

tert-Butyl 4-{[1-(3-fluorobenzyl)-3-hydroxy-2-oxo-1,2-dihydropyridin-4-yl]methyl} piperazine-1-carboxylate; and

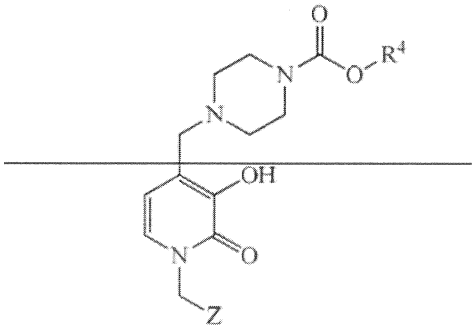
tert-Butyl 4-{[1-(2-fluorobenzyl)-3-hydroxy-2-oxo-1,2-dihydropyridin-4-yl]methyl} piperazine-1-carboxylate.

2030. The composition according to any one of Claims 1121 to 1929, wherein the compound is a pharmaceutically acceptable salt of an anion chosen from chloride, bromide, iodide, sulfate, bisulfate, carbonate, bicarbonate, phosphate, hydrogensulfonate, p-toluenesulfonate, methanesulfonate, formate, acetate, propionate, butyrate, pyruvate, lactate, oxalate, malonate, maleate, succinate, tartrate, fumarate, glycolate, or citrate.

2131. The composition according to any of Claims 1121 to 2030, wherein the composition further comprises an antimicrobial.

32. A composition comprising:

a) one or more compounds having the formula:



wherein Z is phenyl substituted with from 1 to 5 halogens chosen from fluorine and chlorine; wherein R^4 is C_1-C_4 linear alkyl or C_3-C_4 branched alkyl; or a pharmaceutically acceptable salt thereof; and

b) one or more pharmaceutically acceptable excipients.

33. The composition according to Claim 32, wherein R^4 is methyl.

34. The composition according to Claim 32, wherein R^4 is ethyl.

35. The composition according to Claim 32, wherein R^4 is *tert*-butyl.

36. The composition according to any one of Claims 32 to 35, wherein Z is 4-chlorophenyl.

37. The composition according to any one of Claims 32 to 35, wherein Z is chosen from 2-chlorophenyl, 3-chlorophenyl, 2-fluorophenyl, 3-fluorophenyl, or 4-fluorophenyl.

38. The composition according to any one of Claims 32 to 35, wherein Z is chosen from 2,3-difluorophenyl, 2,4-difluorophenyl, 2,5-difluorophenyl, 2,6-difluorophenyl, 2,3-dichlorophenyl, 2,4-dichlorophenyl, 2,5-dichlorophenyl, and 2,6-dichlorophenyl.

39. The composition according to Claim 32, comprising *tert*-butyl 4-{[1-(4-chloro phenylsulfonyl)-3-hydroxy-2-oxo-1,2-dihydropyridin-4-yl]methyl}piperazine-1-carboxylate.

~~40. The composition according to Claim 32, comprising one or more compounds chosen from: Methyl 4-{[1-(4-chlorobenzyl)-3-hydroxy-2-oxo-1,2-dihydropyridin-4-yl]methyl} piperazine-1-carboxylate;~~

~~Methyl 4-{[1-(3-chlorobenzyl)-3-hydroxy-2-oxo-1,2-dihydropyridin-4-yl]methyl} piperazine-1-carboxylate;~~

~~Methyl 4-{[1-(2-chlorobenzyl)-3-hydroxy-2-oxo-1,2-dihydropyridin-4-yl]methyl} piperazine-1-carboxylate;~~

~~Ethyl 4-{[1-(4-chlorobenzyl)-3-hydroxy-2-oxo-1,2-dihydropyridin-4-yl]methyl} piperazine-1-carboxylate;~~

~~Ethyl 4-{[1-(3-chlorobenzyl)-3-hydroxy-2-oxo-1,2-dihydropyridin-4-yl]methyl} piperazine-1-carboxylate;~~

~~Ethyl 4-{[1-(2-chlorobenzyl)-3-hydroxy-2-oxo-1,2-dihydropyridin-4-yl]methyl} piperazine-1-carboxylate;~~

~~*tert*-Butyl 4-{[1-(3-chlorobenzyl)-3-hydroxy-2-oxo-1,2-dihydropyridin-4-yl]methyl} piperazine-1-carboxylate;~~

~~*tert*-Butyl 4-{[1-(2-chlorobenzyl)-3-hydroxy-2-oxo-1,2-dihydropyridin-4-yl]methyl} piperazine-1-carboxylate;~~

~~Methyl 4-{[1-(4-fluorobenzyl)-3-hydroxy-2-oxo-1,2-dihydropyridin-4-yl]methyl} piperazine-1-carboxylate;~~

~~Methyl 4-{[1-(3-fluorobenzyl)-3-hydroxy-2-oxo-1,2-dihydropyridin-4-yl]methyl} piperazine-1-carboxylate;~~

~~Methyl 4-{[1-(2-fluorobenzyl)-3-hydroxy-2-oxo-1,2-dihydropyridin-4-yl]methyl} piperazine-1-carboxylate;~~

~~Ethyl 4-{[1-(4-fluorobenzyl)-3-hydroxy-2-oxo-1,2-dihydropyridin-4-yl]methyl} piperazine-1-carboxylate;~~

~~Ethyl 4-{[1-(3-fluorobenzyl)-3-hydroxy-2-oxo-1,2-dihydropyridin-4-yl]methyl}-piperazine-1-carboxylate;~~

~~Ethyl 4-{[1-(2-fluorobenzyl)-3-hydroxy-2-oxo-1,2-dihydropyridin-4-yl]methyl}-piperazine-1-carboxylate;~~

~~*tert*-Butyl 4-{[1-(4-fluorobenzyl)-3-hydroxy-2-oxo-1,2-dihydropyridin-4-yl]methyl}-piperazine-1-carboxylate;~~

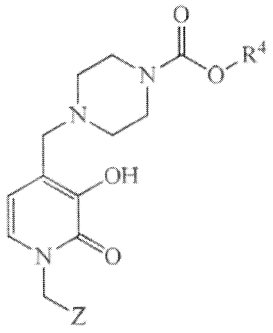
~~*tert*-Butyl 4-{[1-(3-fluorobenzyl)-3-hydroxy-2-oxo-1,2-dihydropyridin-4-yl]methyl}-piperazine-1-carboxylate; and~~

~~*tert*-Butyl 4-{[1-(2-fluorobenzyl)-3-hydroxy-2-oxo-1,2-dihydropyridin-4-yl]methyl}-piperazine-1-carboxylate.~~

~~41. The composition according to any one of Claims 32 to 40, wherein the compound is a pharmaceutically acceptable salt of an anion chosen from chloride, bromide, iodide, sulfate, bisulfate, carbonate, bicarbonate, phosphate, hydrogensulfonate, p-toluenesulfonate, methanesulfonate, formate, acetate, propionate, butyrate, pyruvate, lactate, oxalate, malonate, maleate, succinate, tartrate, fumarate, glycolate, or citrate.~~

~~42. The composition according to any one of Claims 32 to 41, wherein the composition further comprises an antimicrobial.~~

22~~43~~. The use of a compound for treating a wound, the compound having the formula:

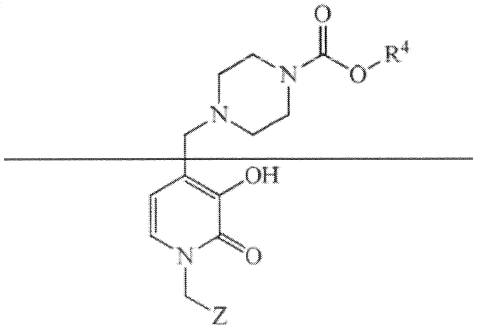


wherein Z is phenyl substituted with from 1 to 5 halogens chosen from fluorine and chlorine;

R^4 is C_1-C_4 linear alkyl or C_3-C_4 branched alkyl;

or a pharmaceutically acceptable salt thereof.

~~44. The use of a compound for treating a wound, the compound having the formula:~~



~~wherein Z is phenyl substituted with from 1 to 5 halogens chosen from fluorine and chlorine;~~

~~R^4 is C_1-C_4 linear alkyl or C_3-C_4 branched alkyl;~~

~~or a pharmaceutically acceptable salt thereof.~~

2345. The use according to ~~either of~~ Claim 2243 ~~or 44~~, wherein R^4 is methyl.

2446. The use according to ~~either of~~ Claim 2243 ~~or 44~~, wherein R^4 is ethyl.

2547. The use according to ~~either of~~ Claim 2243 ~~or 44~~, wherein R^4 is *tert*-butyl.

2648. The use according to ~~either of~~ Claim 2243 ~~or 44~~, wherein Z is 4-chlorophenyl.

2749. The use according to ~~either of~~ Claim 2243 ~~or 44~~, wherein Z is chosen from 2-chlorophenyl, 3-chlorophenyl, 2-fluorophenyl, 3-fluorophenyl, or 4-fluorophenyl.

2850. The use according to ~~either of~~ Claim 2243 ~~or 44~~, wherein Z is chosen from 2,3-difluorophenyl, 2,4-difluorophenyl, 2,5-difluorophenyl, 2,6-difluorophenyl, 2,3-dichlorophenyl, 2,4-dichlorophenyl, 2,5-dichlorophenyl, and 2,6-dichlorophenyl.

2951. The use according to Claim 2243, wherein the compound is ~~comprising~~ *tert*-butyl 4-{[1-(4-chloro-benzyl)-3-hydroxy-2-oxo-1,2-dihydropyridin-4-yl]methyl}piperazine-1-carboxylate.

3052. The use according to Claim 2243, wherein the compound is chosen from:

Methyl 4-{[1-(4-chlorobenzyl)-3-hydroxy-2-oxo-1,2-dihydropyridin-4-yl]methyl} piperazine-1-carboxylate;

Methyl 4-{[1-(3-chlorobenzyl)-3-hydroxy-2-oxo-1,2-dihydropyridin-4-yl]methyl} piperazine-1-carboxylate;

Methyl 4-{[1-(2-chlorobenzyl)-3-hydroxy-2-oxo-1,2-dihydropyridin-4-yl]methyl} piperazine-1-carboxylate;

Ethyl 4-{[1-(4-chlorobenzyl)-3-hydroxy-2-oxo-1,2-dihydropyridin-4-yl]methyl} piperazine-1-carboxylate;

Ethyl 4-{[1-(3-chlorobenzyl)-3-hydroxy-2-oxo-1,2-dihydropyridin-4-yl]methyl} piperazine-1-carboxylate;

Ethyl 4-{[1-(2-chlorobenzyl)-3-hydroxy-2-oxo-1,2-dihydropyridin-4-yl]methyl} piperazine-1-carboxylate;

tert-Butyl 4-{[1-(3-chlorobenzyl)-3-hydroxy-2-oxo-1,2-dihydropyridin-4-yl]methyl} piperazine-1-carboxylate;

tert-Butyl 4-{[1-(2-chlorobenzyl)-3-hydroxy-2-oxo-1,2-dihydropyridin-4-yl]methyl} piperazine-1-carboxylate;

Methyl 4-{[1-(4-fluorobenzyl)-3-hydroxy-2-oxo-1,2-dihydropyridin-4-yl]methyl} piperazine-1-carboxylate;

Methyl 4-{[1-(3-fluorobenzyl)-3-hydroxy-2-oxo-1,2-dihydropyridin-4-yl]methyl} piperazine-1-carboxylate;

Methyl 4-{[1-(2-fluorobenzyl)-3-hydroxy-2-oxo-1,2-dihydropyridin-4-yl]methyl} piperazine-1-carboxylate;

Ethyl 4-{[1-(4-fluorobenzyl)-3-hydroxy-2-oxo-1,2-dihydropyridin-4-yl]methyl} piperazine-1-carboxylate;

Ethyl 4-{[1-(3-fluorobenzyl)-3-hydroxy-2-oxo-1,2-dihydropyridin-4-yl]methyl} piperazine-1-carboxylate;

Ethyl 4-{[1-(2-fluorobenzyl)-3-hydroxy-2-oxo-1,2-dihydropyridin-4-yl]methyl} piperazine-1-carboxylate;

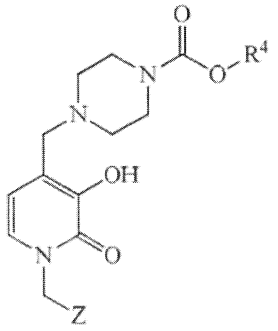
tert-Butyl 4-{[1-(4-fluorobenzyl)-3-hydroxy-2-oxo-1,2-dihydropyridin-4-yl]methyl} piperazine-1-carboxylate;

tert-Butyl 4-{[1-(3-fluorobenzyl)-3-hydroxy-2-oxo-1,2-dihydropyridin-4-yl]methyl} piperazine-1-carboxylate; and

tert-Butyl 4-{[1-(2-fluorobenzyl)-3-hydroxy-2-oxo-1,2-dihydropyridin-4-yl]methyl} piperazine-1-carboxylate.

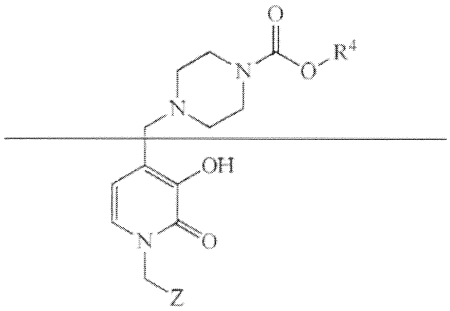
3153. The use according to any one of Claims 2243 to 3052, wherein the compound is a pharmaceutically acceptable salt of an anion chosen from chloride, bromide, iodide, sulfate, bisulfate, carbonate, bicarbonate, phosphate, hydrogensulfonate, ptoluenesulfonate, methanesulfonate, formate, acetate, propionate, butyrate, pyruvate, lactate, oxalate, malonate, maleate, succinate, tartrate, fumarate, glycolate, or citrate.

3254. The use of a compound for making a medicament for treating a wound, the compound having the formula:



wherein Z is phenyl substituted with from 1 to 5 halogens chosen from fluorine and chlorine;
R^4 is C_1-C_4 linear alkyl or C_3-C_4 branched alkyl;
or a pharmaceutically acceptable salt thereof

~~55. The use of a compound for making a medicament for treating a wound, the compound having the formula:~~



~~wherein Z is phenyl substituted with from 1 to 5 halogens chosen from fluorine and chlorine;~~

~~R^4 is C_1-C_4 linear alkyl or C_3-C_4 branched alkyl;~~

~~or a pharmaceutically acceptable salt thereof.~~

3356. The use according to ~~either of~~ Claim 4354 ~~or 55~~, wherein R^4 is methyl.

3457. The use according to ~~either of~~ Claim 3254 ~~or 55~~, wherein R^4 is ethyl.

3558. The use according to ~~either of~~ Claim 3254 ~~or 55~~, wherein R^4 is *tert*-butyl.

3659. The use according to ~~either of~~ Claim 3254 ~~or 55~~, wherein Z is 4-chlorophenyl.

3760. The use according to ~~either of~~ Claim 32 ~~54 or 55~~, wherein Z is chosen from 2- chlorophenyl, 3-chlorophenyl, 2-fluorophenyl, 3-fluorophenyl, or 4-fluorophenyl.

3861. The use according to ~~either of~~ Claim 3254 ~~or 55~~, wherein Z is chosen from 2,3-difluorophenyl, 2,4-difluorophenyl, 2,5-difluorophenyl, 2,6-difluorophenyl, 2,3-dichlorophenyl, 2,4-dichlorophenyl, 2,5-dichlorophenyl, and 2,6-dichlorophenyl.

3962. The use according to Claim 3254, wherein the compound is ~~comprising~~ *tert*-butyl 4-{[1-(4-chloro-benzyl)-3-hydroxy-2-oxo-1,2-dihydropyridin-4-yl]methyl}piperazine-1-carboxylate.

4063. The use according to ~~either of~~ Claim 32 ~~54 or 55~~, wherein the compound is chosen from:

Methyl 4-{[1-(4-chlorobenzyl)-3-hydroxy-2-oxo-1,2-dihydropyridin-4-yl]methyl} piperazine-1-carboxylate;

Methyl 4-{[1-(3-chlorobenzyl)-3-hydroxy-2-oxo-1,2-dihydropyridin-4-yl]methyl} piperazine-1-carboxylate;

Methyl 4-{[1-(2-chlorobenzyl)-3-hydroxy-2-oxo-1,2-dihydropyridin-4-yl]methyl} piperazine-1-carboxylate;

Ethyl 4-{[1-(4-chlorobenzyl)-3-hydroxy-2-oxo-1,2-dihydropyridin-4-yl]methyl} piperazine-1-carboxylate;

Ethyl 4-{[1-(3-chlorobenzyl)-3-hydroxy-2-oxo-1,2-dihydropyridin-4-yl]methyl} piperazine-1-carboxylate;

Ethyl 4-{[1-(2-chlorobenzyl)-3-hydroxy-2-oxo-1,2-dihydropyridin-4-yl]methyl} piperazine-1-carboxylate;

tert-Butyl 4-{[1-(3-chlorobenzyl)-3-hydroxy-2-oxo-1,2-dihydropyridin-4-yl]methyl} piperazine-1-carboxylate;

tert-Butyl 4-{[1-(2-chlorobenzyl)-3-hydroxy-2-oxo-1,2-dihydropyridin-4-yl]methyl} piperazine-1-carboxylate;

Methyl 4-{[1-(4-fluorobenzyl)-3-hydroxy-2-oxo-1,2-dihydropyridin-4-yl]methyl} piperazine-1-carboxylate;

Methyl 4-{[1-(3-fluorobenzyl)-3-hydroxy-2-oxo-1,2-dihydropyridin-4-yl]methyl} piperazine-1-carboxylate;

Methyl 4-{[1-(2-fluorobenzyl)-3-hydroxy-2-oxo-1,2-dihydropyridin-4-yl]methyl} piperazine-1-carboxylate;

Ethyl 4-{[1-(4-fluorobenzyl)-3-hydroxy-2-oxo-1,2-dihydropyridin-4-yl]methyl} piperazine-1-carboxylate;

Ethyl 4-{[1-(3-fluorobenzyl)-3-hydroxy-2-oxo-1,2-dihydropyridin-4-yl]methyl} piperazine-1-carboxylate;

Ethyl 4-{[1-(2-fluorobenzyl)-3-hydroxy-2-oxo-1,2-dihydropyridin-4-yl]methyl} piperazine-1-carboxylate;

tert-Butyl 4-{[1-(4-fluorobenzyl)-3-hydroxy-2-oxo-1,2-dihydropyridin-4-yl]methyl} piperazine-1-carboxylate;

tert-Butyl 4-{[1-(3-fluorobenzyl)-3-hydroxy-2-oxo-1,2-dihydropyridin-4-yl]methyl} piperazine-1-carboxylate; and

tert-Butyl 4-{[1-(2-fluorobenzyl)-3-hydroxy-2-oxo-1,2-dihydropyridin-4-yl]methyl} piperazine-1-carboxylate.

4164. The use according to any one of Claims 3254 to 4063, wherein the compound is a pharmaceutically acceptable salt of an anion chosen from chloride, bromide, iodide, sulfate, bisulfate, carbonate, bicarbonate, phosphate, hydrogensulfonate, p-toluenesulfonate, methanesulfonate, formate, acetate, propionate, butyrate, pyruvate, lactate, oxalate, malonate, maleate, succinate, tartrate, fumarate, glycolate, or citrate.