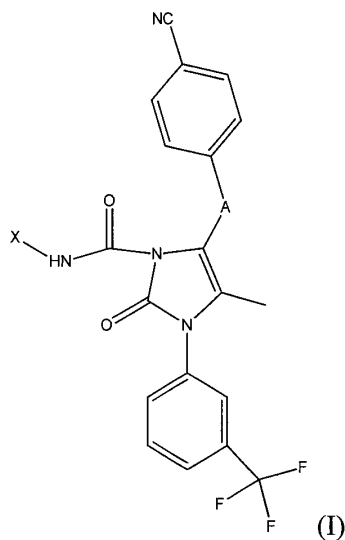


**CLAIMS**

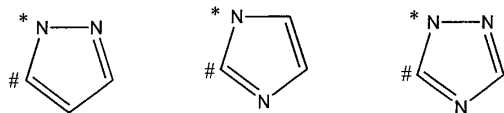
1. A compound of formula (I), or a pharmaceutically acceptable salt thereof



5

wherein

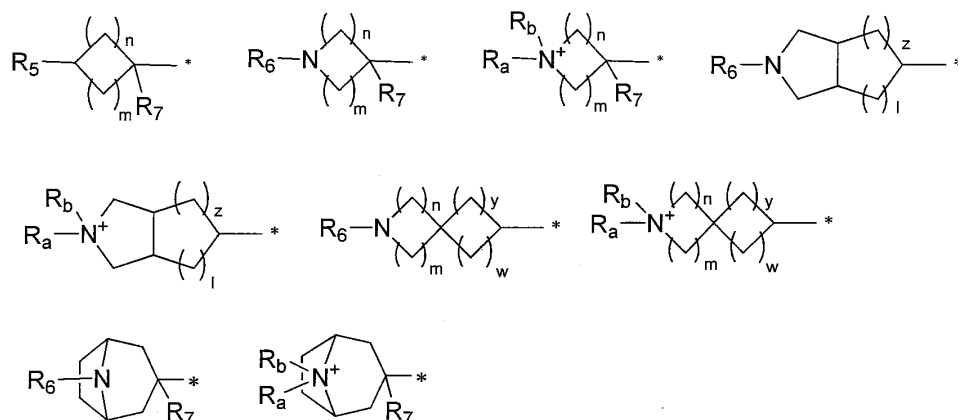
A is selected from the group consisting of



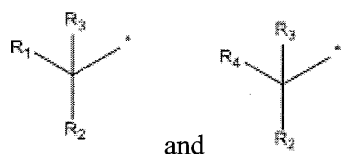
10

wherein the nitrogen atom designated with the asterisk \* is bound to the 4-cyanophenyl group and the carbon atom designated with # is bound to the carbon atom of the 2-oxo-2,3-dihydroimidazole ring;

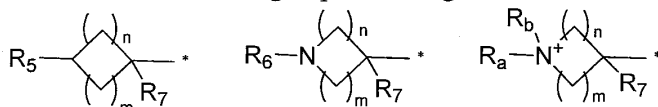
X is selected from the group consisting of



or is selected from the group consisting of



5 **R<sub>1</sub>** is selected from the group consisting of



**n** is an integer from 1 to 4;

**m** is 0 or an integer from 1 to 4;

**t** is 0 or an integer from 1 to 4;

10 **y** is an integer from 1 to 4;

**w** is an integer from 1 to 4;

**z** is 0 or 1;

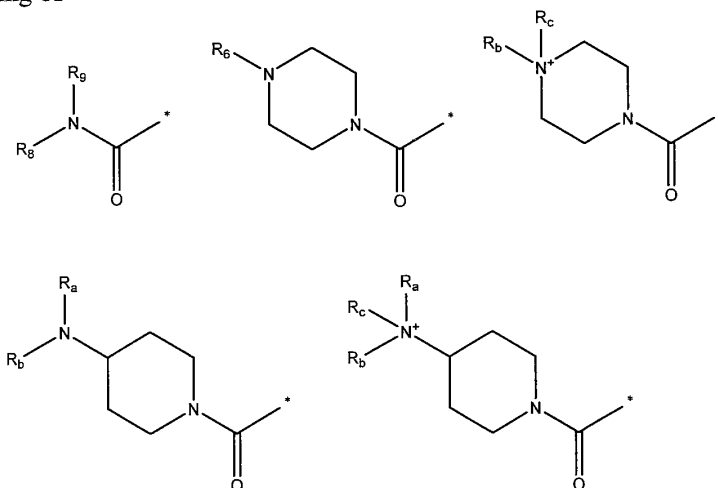
**l** is 0 or 1;

**R<sub>2</sub>** is -H or linear or branched -(C<sub>1</sub>-C<sub>4</sub>)alkyl;

15 **R<sub>3</sub>** is linear or branched -(C<sub>1</sub>-C<sub>4</sub>)alkyl or R<sub>2</sub> and R<sub>3</sub> may form together a cycloalkyl;

**R<sub>4</sub>** is selected from the group consisting of -arylene-(C<sub>1</sub>-C<sub>4</sub>)alkylene-NR<sub>d</sub>R<sub>e</sub>,  
 -arylene-(C<sub>1</sub>-C<sub>4</sub>)alkylene-N<sup>+</sup>R<sub>a</sub>R<sub>b</sub>R<sub>c</sub>, -heteroarylene-(C<sub>1</sub>-C<sub>4</sub>)alkylene-NR<sub>d</sub>R<sub>e</sub>,  
 -heteroarylene-(C<sub>1</sub>-C<sub>4</sub>)alkylene-N<sup>+</sup>R<sub>a</sub>R<sub>b</sub>R<sub>c</sub> and heteroaryl, wherein any of such arylene-

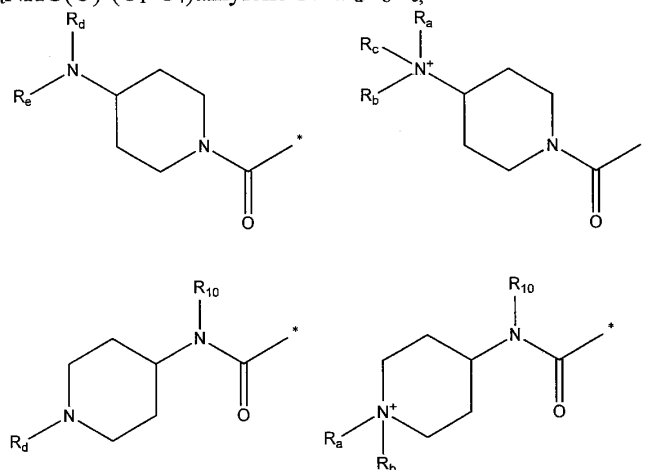
(C<sub>1</sub>-C<sub>4</sub>)alkylene-NR<sub>d</sub>R<sub>e</sub>, -arylene-(C<sub>1</sub>-C<sub>4</sub>)alkylene-N<sup>+</sup>R<sub>a</sub>R<sub>b</sub>R<sub>c</sub>, -heteroarylene-(C<sub>1</sub>-C<sub>4</sub>)alkylene-NR<sub>d</sub>R<sub>e</sub>, -heteroarylene-(C<sub>1</sub>-C<sub>4</sub>)alkylene-N<sup>+</sup>R<sub>a</sub>R<sub>b</sub>R<sub>c</sub> and heteroaryl may be optionally substituted by one or more -(C<sub>1</sub>-C<sub>4</sub>)alkyl or **R**<sub>4</sub> is selected from the group consisting of



5

**R**<sub>5</sub> is selected from the group consisting of aryl-(C<sub>1</sub>-C<sub>4</sub>)alkylenoxy-, linear or branched (C<sub>1</sub>-C<sub>4</sub>)alkyl-OC(O)-NH-, -(CH<sub>2</sub>)<sub>t</sub>-N<sup>+</sup>R<sub>a</sub>R<sub>b</sub>R<sub>c</sub>, -C(O)-N(R<sub>10</sub>)(C<sub>1</sub>-C<sub>4</sub>)alkylene-NR<sub>d</sub>R<sub>e</sub>, -C(O)N(R<sub>10</sub>)(C<sub>1</sub>-C<sub>4</sub>)alkylene-N<sup>+</sup>R<sub>a</sub>R<sub>b</sub>R<sub>c</sub>, -C(O)O(C<sub>1</sub>-C<sub>4</sub>)alkylene-NR<sub>d</sub>R<sub>e</sub>, -C(O)O(C<sub>1</sub>-C<sub>4</sub>)alkylene-N<sup>+</sup>R<sub>a</sub>R<sub>b</sub>R<sub>c</sub>, -(CH<sub>2</sub>)<sub>t</sub>NHC(O)-(C<sub>1</sub>-C<sub>4</sub>)alkylene-NR<sub>d</sub>R<sub>e</sub>,

10 -(CH<sub>2</sub>)<sub>t</sub>NHC(O)-(C<sub>1</sub>-C<sub>4</sub>)alkylene-N<sup>+</sup>R<sub>a</sub>R<sub>b</sub>R<sub>c</sub>, or is selected from a group consisting of



**R**<sub>6</sub> is selected from the group consisting of aryl-(C<sub>1</sub>-C<sub>4</sub>)alkylene-OCO-, CF<sub>3</sub>C(O)-, aryl-(C<sub>1</sub>-C<sub>4</sub>)alkylene, linear or branched (C<sub>1</sub>-C<sub>4</sub>)alkyl-OC(O)-, -C(O)-(C<sub>1</sub>-C<sub>4</sub>)alkylene-

$\text{NR}_d\text{R}_e$ ,  $-\text{C}(\text{O})-(\text{C}_1-\text{C}_4)\text{alkylene}-\text{N}^+\text{R}_a\text{R}_b\text{R}_c$ ,  $-\text{C}(\text{O})\text{O}-(\text{C}_1-\text{C}_4)\text{alkylene}-\text{NR}_d\text{R}_e$ ,  $-\text{C}(\text{O})\text{O}-(\text{C}_1-\text{C}_4)\text{alkylene}-\text{N}^+\text{R}_a\text{R}_b\text{R}_c$   
 $-\text{C}(\text{O})-\text{N}(\text{R}_{10})(\text{C}_1-\text{C}_4)\text{alkylene}-\text{NR}_d\text{R}_e$ ,  
 $-\text{C}(\text{O})\text{N}(\text{R}_{10})(\text{C}_1-\text{C}_4)\text{alkylene}-\text{N}^+\text{R}_a\text{R}_b\text{R}_c$ ;

$\text{R}_a$  is  $-(\text{C}_1-\text{C}_4)\text{alkyl}$ ;

5  $\text{R}_b$  is  $-(\text{C}_1-\text{C}_4)\text{alkyl}$ ;

$\text{R}_e$  is selected from  $-(\text{C}_1-\text{C}_4)\text{alkyl}$ , aryl- $(\text{C}_1-\text{C}_4)\text{alkylene}$  and heteroaryl- $(\text{C}_1-\text{C}_4)\text{alkylene}$ , wherein said heteroaryl- $(\text{C}_1-\text{C}_4)\text{alkylene}$  may be optionally substituted by one or more  $-(\text{C}_1-\text{C}_4)\text{alkyl}$  groups;

$\text{R}_d$  is  $-\text{H}$  or  $-(\text{C}_1-\text{C}_4)\text{alkyl}$ ;

10  $\text{R}_e$  is  $-\text{H}$  or  $-(\text{C}_1-\text{C}_4)\text{alkyl}$ ;

$\text{R}_7$  is  $-\text{H}$  or  $-(\text{C}_1-\text{C}_4)\text{alkyl}$ ;

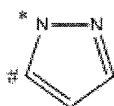
$\text{R}_8$  is  $-\text{H}$  or  $-(\text{C}_1-\text{C}_4)\text{alkyl}$ ;

$\text{R}_9$  is selected from the group consisting of heterocycloalkyl, heterocycloalkyl- $(\text{C}_1-\text{C}_4)\text{alkylene}$ -,  $(\text{C}_1-\text{C}_4)\text{alkylene}-\text{NR}_d\text{R}_e$  and  $(\text{C}_1-\text{C}_4)\text{alkylene}-\text{N}^+\text{R}_a\text{R}_b\text{R}_c$ ;

15  $\text{R}_{10}$  is  $-\text{H}$  or  $-(\text{C}_1-\text{C}_4)\text{alkyl}$ ;

wherein any of such heterocycloalkyl, aryl, heteroaryl and aryl- $(\text{C}_1-\text{C}_4)\text{alkylene}$  may be optionally substituted by one or more groups independently selected from  $(\text{C}_1-\text{C}_4)\text{alkyl}$  and  $\text{OR}_7$  and wherein the nitrogen atom in the heterocycloalkyl and heteroaryl groups may be quaternized.

20 2. A compound as claimed in claim 1, wherein A is



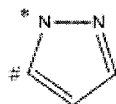
X is



$n$  is 2 or 3;  $m$  is 0 or 2;  $\text{R}_7$  is  $-\text{H}$ ;  $\text{R}_5$  is selected from aryl- $(\text{C}_1-\text{C}_4)\text{alkylenoxy}$ -, linear or  
 25 branched  $(\text{C}_1-\text{C}_4)\text{alkyl}-\text{OC}(\text{O})-\text{NH}$ ,  $\text{C}(\text{O})\text{O}(\text{C}_1-\text{C}_4)\text{alkylene}-\text{N}^+\text{R}_a\text{R}_b\text{R}_c$ ,  $-(\text{CH}_2)_i\text{NHC}(\text{O})-$

(C<sub>1</sub>-C<sub>4</sub>)alkylene-NR<sub>d</sub>R<sub>e</sub>, -(CH<sub>2</sub>)<sub>t</sub>NHC(O)-(C<sub>1</sub>-C<sub>4</sub>)alkylene-N<sup>+</sup>R<sub>a</sub>R<sub>b</sub>R<sub>c</sub> and -C(O)N(R<sub>10</sub>)(C<sub>1</sub>-C<sub>4</sub>)alkylene-N<sup>+</sup>R<sub>a</sub>R<sub>b</sub>R<sub>c</sub> - wherein **t** is 0 or 1, **R<sub>a</sub>** and **R<sub>b</sub>** are independently -(C<sub>1</sub>-C<sub>4</sub>)alkyl, **R<sub>c</sub>** is selected from -(C<sub>1</sub>-C<sub>4</sub>)alkyl, heteroaryl-(C<sub>1</sub>-C<sub>4</sub>)alkylene and aryl-(C<sub>1</sub>-C<sub>4</sub>)alkylene, **R<sub>d</sub>** and **R<sub>e</sub>** are independently -(C<sub>1</sub>-C<sub>4</sub>)alkyl, **R<sub>10</sub>** is -H or -(C<sub>1</sub>-C<sub>4</sub>)alkyl.

- 5 3. A compound as claimed in claim 1, wherein, **A** is

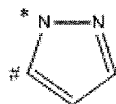


**X** is

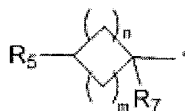


- n** is 1 or 2; **m** is 1 or 2; **R<sub>7</sub>** is -H; **R<sub>5</sub>** is -(CH<sub>2</sub>)<sub>t</sub>-N<sup>+</sup>R<sub>a</sub>R<sub>b</sub>R<sub>c</sub>, wherein **t** is 0 or 1, **R<sub>a</sub>** and **R<sub>b</sub>** are  
10 independently -(C<sub>1</sub>-C<sub>4</sub>)alkyl, **R<sub>c</sub>** is selected from -(C<sub>1</sub>-C<sub>4</sub>)alkyl, heteroaryl-(C<sub>1</sub>-C<sub>4</sub>)alkylene and aryl-(C<sub>1</sub>-C<sub>4</sub>)alkylene.

4. A compound as claimed in claim 1, wherein **A** is

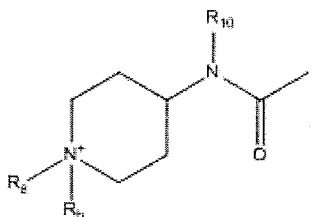


**X** is



15

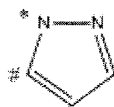
**n** is 2; **m** is 2; **R<sub>7</sub>** is -H; **R<sub>5</sub>** is



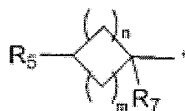
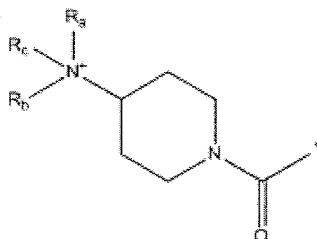
**R<sub>a</sub>** is -(C<sub>1</sub>-C<sub>4</sub>)alkyl; **R<sub>b</sub>** is -(C<sub>1</sub>-C<sub>4</sub>)alkyl; **R<sub>10</sub>** is -H or -(C<sub>1</sub>-C<sub>4</sub>)alkyl.

- 20 5. A compound as claimed in claim 1, wherein **A** is

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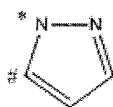
X is

**n** is 2; **m** is 2; **R<sub>7</sub>** is -H; **R<sub>5</sub>** is

5

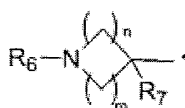
**R<sub>a</sub>** is -(C<sub>1</sub>-C<sub>4</sub>)alkyl; **R<sub>b</sub>** is -(C<sub>1</sub>-C<sub>4</sub>)alkyl; **R<sub>c</sub>** is selected from -(C<sub>1</sub>-C<sub>4</sub>)alkyl.

6. A compound as claimed in claim 1, wherein A is



10

X is

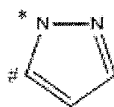


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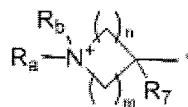
**n** is 2; **m** is 2; **R<sub>7</sub>** is -H or -(C<sub>1</sub>-C<sub>4</sub>)alkyl; **R<sub>6</sub>** is selected from aryl-(C<sub>1</sub>-C<sub>4</sub>)alkylenoxy-, aryl-(C<sub>1</sub>-C<sub>4</sub>)alkylene-OCO-, CF<sub>3</sub>C(O)-, -C(O)-(C<sub>1</sub>-C<sub>4</sub>)alkylene-NR<sub>d</sub>R<sub>e</sub>, -C(O)O-(C<sub>1</sub>-C<sub>4</sub>)alkylene-N<sup>+</sup>R<sub>a</sub>R<sub>b</sub>R<sub>c</sub>, -C(O)N(R<sub>10</sub>)(C<sub>1</sub>-C<sub>4</sub>)alkylene-N<sup>+</sup>R<sub>a</sub>R<sub>b</sub>R<sub>c</sub>, and -C(O)-(C<sub>1</sub>-C<sub>4</sub>)alkylene-N<sup>+</sup>R<sub>a</sub>R<sub>b</sub>R<sub>c</sub> wherein **R<sub>d</sub>** is -H or -(C<sub>1</sub>-C<sub>4</sub>)alkyl; **R<sub>e</sub>** is -H or -(C<sub>1</sub>-C<sub>4</sub>)alkyl, **R<sub>a</sub>** is -(C<sub>1</sub>-C<sub>4</sub>)alkyl; **R<sub>b</sub>** is -(C<sub>1</sub>-C<sub>4</sub>)alkyl; **R<sub>c</sub>** is selected from -(C<sub>1</sub>-C<sub>4</sub>)alkyl; **R<sub>10</sub>** is -H or -(C<sub>1</sub>-C<sub>4</sub>)alkyl.

7. A compound as claimed in claim 1, wherein A is

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X is



**n** is 1 or 2; **m** is 2; **R<sub>7</sub>** is -H or -(C<sub>1</sub>-C<sub>4</sub>)alkyl; **R<sub>a</sub>** and **R<sub>b</sub>** are independently -(C<sub>1</sub>-C<sub>4</sub>)alkyl.

- 5 8. A compound as claimed in claim 1, wherein a compound of the invention is selected in the group consisting of
  - 5-[2-(4-Cyano-phenyl)-2H-pyrazol-3-yl]-4-methyl-2-oxo-3-(3-trifluoromethyl-phenyl)-2,3-dihydro-imidazole-1-carboxylic acid trans-(4-dimethylaminomethyl-cyclohexyl)-amide;
  - 10 5-[2-(4-Cyano-phenyl)-2H-pyrazol-3-yl]-4-methyl-2-oxo-3-(3-trifluoromethyl-phenyl)-2,3-dihydro-imidazole-1-carboxylic acid ((1S,2S)-2-benzyloxy-cyclopentyl)-amide;
  - 4-{{5-[2-(4-Cyano-phenyl)-2H-pyrazol-3-yl]-4-methyl-2-oxo-3-(3-trifluoromethyl-phenyl)-2,3-dihydro-imidazole-1-carbonyl]-amino}-piperidine-1-carboxylic acid benzyl ester;
  - 15 5-[2-(4-Cyano-phenyl)-2H-pyrazol-3-yl]-4-methyl-2-oxo-3-(3-trifluoromethyl-phenyl)-2,3-dihydro-imidazole-1-carboxylic acid [1-(2,2,2-trifluoro-acetyl)-piperidin-4-yl]-amide;
  - 5-[2-(4-Cyano-phenyl)-2H-pyrazol-3-yl]-4-methyl-2-oxo-3-(3-trifluoromethyl-phenyl)-2,3-dihydro-imidazole-1-carboxylic acid ((S)-1-pyridin-4-yl-ethyl)-amide;
  - 5-[2-(4-Cyano-phenyl)-2H-pyrazol-3-yl]-4-methyl-2-oxo-3-(3-trifluoromethyl-phenyl)-2,3-dihydro-imidazole-1-carboxylic acid ((R)-1-pyridin-4-yl-ethyl)-amide;
  - 20 5-[2-(4-Cyano-phenyl)-2H-pyrazol-3-yl]-4-methyl-2-oxo-3-(3-trifluoromethyl-phenyl)-2,3-dihydro-imidazole-1-carboxylic acid [3-(4-methoxy-benzyl)-3-aza-bicyclo[3.1.0]hex-6-yl]-amide;
  - (Trans-4-{{5-[2-(4-cyano-phenyl)-2H-pyrazol-3-yl]-4-methyl-2-oxo-3-(3-trifluoromethyl-phenyl)-2,3-dihydro-imidazole-1-carbonyl]-amino}-cyclohexyl)-carbamic acid tert-butyl

ester;

5-[2-(4-Cyano-phenyl)-2H-pyrazol-3-yl]-4-methyl-2-oxo-3-(3-trifluoromethyl-phenyl)-  
2,3-dihydro-imidazole-1-carboxylic acid (trans-4-dimethylamino-cyclohexyl)-amide;

(3aS,5R,6aR)-5-{[5-[2-(4-Cyano-phenyl)-2H-pyrazol-3-yl]-4-methyl-2-oxo-3-(3-

5 trifluoromethyl-phenyl)-2,3-dihydro-imidazole-1-carbonyl]-amino}-hexahydro-  
cyclopenta[c]pyrrole-2-carboxylic acid tert-butyl ester

5-[2-(4-Cyano-phenyl)-2H-pyrazol-3-yl]-4-methyl-2-oxo-3-(3-trifluoromethyl-phenyl)-

2,3-dihydro-imidazole-1-carboxylic acid [(S)-1-methyl-2-(4-methyl-piperazin-1-yl)-2-  
oxo-ethyl]-amide;

10 (3aR,5S,6aS)-5-{[5-[2-(4-Cyano-phenyl)-2H-pyrazol-3-yl]-4-methyl-2-oxo-3-(3-

trifluoromethyl-phenyl)-2,3-dihydro-imidazole-1-carbonyl]-amino}-hexahydro-

cyclopenta[c]pyrrole-2-carboxylic acid tert-butyl ester

5-[2-(4-Cyano-phenyl)-2H-pyrazol-3-yl]-4-methyl-2-oxo-3-(3-trifluoromethyl-phenyl)-

2,3-dihydro-imidazole-1-carboxylic acid [(S)-1-(1-methyl-piperidin-4-ylcarbamoyl)-

15 ethyl]-amide;

5-[2-(4-Cyano-phenyl)-2H-pyrazol-3-yl]-4-methyl-2-oxo-3-(3-trifluoromethyl-phenyl)-

2,3-dihydro-imidazole-1-carboxylic acid [(S)-1-(4-dimethylaminomethyl-phenyl)-ethyl]-  
amide;

5-[2-(4-Cyano-phenyl)-2H-pyrazol-3-yl]-4-methyl-2-oxo-3-(3-trifluoromethyl-phenyl)-

20 2,3-dihydro-imidazole-1-carboxylic acid [1-(3-dimethylamino-propionyl)-piperidin-4-yl]-  
amide;

5-[2-(4-Cyano-phenyl)-2H-pyrazol-3-yl]-4-methyl-2-oxo-3-(3-trifluoromethyl-phenyl)-

2,3-dihydro-imidazole-1-carboxylic acid [(S)-1-(5-dimethylaminomethyl-oxazol-2-yl)-  
ethyl]-amide;

25 5-[2-(4-Cyano-phenyl)-2H-pyrazol-3-yl]-4-methyl-2-oxo-3-(3-trifluoromethyl-phenyl)-

2,3-dihydro-imidazole-1-carboxylic acid [1-(2-dimethylamino-acetyl)-piperidin-4-yl]-  
amide;

5-[2-(4-Cyano-phenyl)-2H-pyrazol-3-yl]-4-methyl-2-oxo-3-(3-trifluoromethyl-phenyl)-

- 2,3-dihydro-imidazole-1-carboxylic acid {(S)-1-[methyl-(1-methyl-piperidin-4-ylmethyl)-  
carbamoyl]-ethyl}-amide;
- 5- [2-(4-Cyano-phenyl)-2H-pyrazol-3-yl]-4-methyl-2-oxo-3-(3-trifluoromethyl-phenyl)-  
2,3-dihydro-imidazole-1-carboxylic acid [(S)-2-(4-dimethylamino-piperidin-1-yl)-1-  
5 methyl-2-oxo-ethyl]-amide;
- 5- [2-(4-Cyano-phenyl)-2H-pyrazol-3-yl]-4-methyl-2-oxo-3-(3-trifluoromethyl-phenyl)-  
2,3-dihydro-imidazole-1-carboxylic acid {(S)-1-[(2-dimethylamino-ethyl)-methyl-  
carbamoyl]-ethyl}-amide;
- 5- [2-(4-Cyano-phenyl)-2H-pyrazol-3-yl]-4-methyl-2-oxo-3-(3-trifluoromethyl-phenyl)-  
10 2,3-dihydro-imidazole-1-carboxylic acid [(S)-1-(5-dimethylaminomethyl-oxazol-2-yl)-2-  
methyl-propyl]-amide;
- 5- [2-(4-Cyano-phenyl)-2H-pyrazol-3-yl]-4-methyl-2-oxo-3-(3-trifluoromethyl-phenyl)-  
2,3-dihydro-imidazole-1-carboxylic acid [(S)-1-(5-dimethylaminomethyl-oxazol-2-yl)-  
propyl]-amide;
- 15 5- [2-(4-Cyano-phenyl)-2H-pyrazol-3-yl]-4-methyl-2-oxo-3-(3-trifluoromethyl-phenyl)-  
2,3-dihydro-imidazole-1-carboxylic acid [1-(5-dimethylaminomethyl-oxazol-2-yl)-  
cyclopropyl]-amide;
- 5- [2-(4-Cyano-phenyl)-2H-pyrazol-3-yl]-4-methyl-2-oxo-3-(3-trifluoromethyl-phenyl)-  
2,3-dihydro-imidazole-1-carboxylic acid [1-(5-dimethylaminomethyl-oxazol-2-yl)-1-  
20 methyl-ethyl]-amide;
- 5- [2-(4-Cyano-phenyl)-2H-pyrazol-3-yl]-4-methyl-2-oxo-3-(3-trifluoromethyl-phenyl)-  
2,3-dihydro-imidazole-1-carboxylic acid [1-(2-dimethylamino-acetyl)-4-methyl-piperidin-  
4-yl]-amide;
- 5- [2-(4-Cyano-phenyl)-2H-pyrazol-3-yl]-4-methyl-2-oxo-3-(3-trifluoromethyl-phenyl)-  
25 2,3-dihydro-imidazole-1-carboxylic acid [trans-4-(2-dimethylamino-acetyl-amino)-  
cyclohexyl]-amide;
- 5- [2-(4-Cyano-phenyl)-2H-pyrazol-3-yl]-4-methyl-2-oxo-3-(3-trifluoromethyl-phenyl)-  
2,3-dihydro-imidazole-1-carboxylic acid {trans-4-[(2-dimethylamino-acetyl-amino)-

methyl]-cyclohexyl}-amide;

5-[2-(4-Cyano-phenyl)-2H-pyrazol-3-yl]-4-methyl-2-oxo-3-(3-trifluoromethyl-phenyl)-2,3-dihydro-imidazole-1-carboxylic acid {(S)-1-[methyl-(1-methyl-piperidin-4-yl)-carbamoyl]-ethyl}-amide;

5 (Trans-4-{[5-[2-(4-cyano-phenyl)-2H-pyrazol-3-yl]-4-methyl-2-oxo-3-(3-trifluoromethyl-phenyl)-2,3-dihydro-imidazole-1-carbonyl]-amino}-cyclohexylmethyl)-trimethyl-ammonium benzene sulfonate;

Benzyl-(trans-4-{[5-[2-(4-cyano-phenyl)-2H-pyrazol-3-yl]-4-methyl-2-oxo-3-(3-trifluoromethyl-phenyl)-2,3-dihydro-imidazole-1-carbonyl]-amino}-cyclohexylmethyl)-

10 dimethyl-ammonium bromide;

(Trans-4-{[5-[2-(4-cyano-phenyl)-2H-pyrazol-3-yl]-4-methyl-2-oxo-3-(3-trifluoromethyl-phenyl)-2,3-dihydro-imidazole-1-carbonyl]-amino}-cyclohexylmethyl)-ethyl-dimethyl-ammonium benzene sulfonate;

4-{[5-[2-(4-Cyano-phenyl)-2H-pyrazol-3-yl]-4-methyl-2-oxo-3-(3-trifluoromethyl-phenyl)-2,3-dihydro-imidazole-1-carbonyl]-amino}-1,1-dimethyl-piperidinium

15 benzenesulfonate;

(R)-3-{[5-[2-(4-Cyano-phenyl)-2H-pyrazol-3-yl]-4-methyl-2-oxo-3-(3-trifluoromethyl-phenyl)-2,3-dihydro-imidazole-1-carbonyl]-amino}-1,1-dimethyl-pyrrolidinium benzenesulfonate;

20 (S)-3-{[5-[2-(4-Cyano-phenyl)-2H-pyrazol-3-yl]-4-methyl-2-oxo-3-(3-trifluoromethyl-phenyl)-2,3-dihydro-imidazole-1-carbonyl]-amino}-1,1-dimethyl-pyrrolidinium benzenesulfonate;

4-(1-{[5-[2-(4-Cyano-phenyl)-2H-pyrazol-3-yl]-4-methyl-2-oxo-3-(3-trifluoromethyl-phenyl)-2,3-dihydro-imidazole-1-carbonyl]-amino}-ethyl)-1,1-dimethyl-piperidinium

25 benzene sulfonate;

(1S,3R,5R)-3-{[5-[2-(4-Cyano-phenyl)-2H-pyrazol-3-yl]-4-methyl-2-oxo-3-(3-trifluoromethyl-phenyl)-2,3-dihydro-imidazole-1-carbonyl]-amino}-8,8-dimethyl-8-azonia-bicyclo[3.2.1]octane benzene sulfonate;

- (3aS,5R,6aR)-5-{[5-[2-(4-Cyano-phenyl)-2H-pyrazol-3-yl]-4-methyl-2-oxo-3-(3-trifluoromethyl-phenyl)-2,3-dihydro-imidazole-1-carbonyl]-amino}-2,2-dimethyl-octahydro-cyclopenta[c]pyrrolium benzene sulfonate;
- 4-((S)-1-{[5-[2-(4-Cyano-phenyl)-2H-pyrazol-3-yl]-4-methyl-2-oxo-3-(3-trifluoromethyl-phenyl)-2,3-dihydro-imidazole-1-carbonyl]-amino}-ethyl)-1-methyl-pyridinium benzene sulfonate;
- (1R,3S,5S)-3-{[5-[2-(4-Cyano-phenyl)-2H-pyrazol-3-yl]-4-methyl-2-oxo-3-(3-trifluoromethyl-phenyl)-2,3-dihydro-imidazole-1-carbonyl]-amino}-8,8-dimethyl-8-azonia-bicyclo[3.2.1]octane benzene sulfonate;
- 4-{[5-[2-(4-Cyano-phenyl)-2H-pyrazol-3-yl]-4-methyl-2-oxo-3-(3-trifluoromethyl-phenyl)-2,3-dihydro-imidazole-1-carbonyl]-amino}-1,1-diethyl-piperidinium benzene sulfonate;
- (Trans-4-{[5-[2-(4-cyano-phenyl)-2H-pyrazol-3-yl]-4-methyl-2-oxo-3-(3-trifluoromethyl-phenyl)-2,3-dihydro-imidazole-1-carbonyl]-amino}-cyclohexyl)-trimethyl-ammonium benzene sulfonate;
- 4-((S)-1-{[5-[2-(4-Cyano-phenyl)-2H-pyrazol-3-yl]-4-methyl-2-oxo-3-(3-trifluoromethyl-phenyl)-2,3-dihydro-imidazole-1-carbonyl]-amino}-ethyl)-1-ethyl-pyridinium benzene sulfonate;
- Benzyl-(trans-4-{[5-[2-(4-cyano-phenyl)-2H-pyrazol-3-yl]-4-methyl-2-oxo-3-(3-trifluoromethyl-phenyl)-2,3-dihydro-imidazole-1-carbonyl]-amino}-cyclohexyl)-dimethyl-ammonium bromide;
- (Trans-4-{[5-[2-(4-cyano-phenyl)-2H-pyrazol-3-yl]-4-methyl-2-oxo-3-(3-trifluoromethyl-phenyl)-2,3-dihydro-imidazole-1-carbonyl]-amino}-cyclohexyl)-ethyl-dimethyl-ammonium benzene sulfonate;
- (Cis- 4-{[5-[2-(4-cyano-phenyl)-2H-pyrazol-3-yl]-4-methyl-2-oxo-3-(3-trifluoromethyl-phenyl)-2,3-dihydro-imidazole-1-carbonyl]-amino}-cyclohexyl)-trimethyl-ammonium benzene sulfonate;
- Benzyl-(cis-4-{[5-[2-(4-cyano-phenyl)-2H-pyrazol-3-yl]-4-methyl-2-oxo-3-(3-

trifluoromethyl-phenyl)-2,3-dihydro-imidazole-1-carbonyl]-amino}-cyclohexyl)-  
dimethyl-ammonium bromide;

4-(1-{{[5-[2-(4-Cyano-phenyl)-2H-pyrazol-3-yl]-4-methyl-2-oxo-3-(3-trifluoromethyl-  
phenyl)-2,3-dihydro-imidazole-1-carbonyl]-amino}-1-methyl-ethyl)-1-methyl-pyridinium

5 benzene sulfonate;

(Cis-4-{{[5-[2-(4-cyano-phenyl)-2H-pyrazol-3-yl]-4-methyl-2-oxo-3-(3-trifluoromethyl-  
phenyl)-2,3-dihydro-imidazole-1-carbonyl]-amino}-cyclohexyl)-ethyl-dimethyl-  
ammonium benzene sulfonate;

1-Benzyl-4-((S)-2-{{[5-[2-(4-cyano-phenyl)-2H-pyrazol-3-yl]-4-methyl-2-oxo-3-(3-

10 trifluoromethyl-phenyl)-2,3-dihydro-imidazole-1-carbonyl]-amino}-propionyl)-1-methyl-  
piperazin-1-ium bromide;

4-((S)-2-{{[5-[2-(4-Cyano-phenyl)-2H-pyrazol-3-yl]-4-methyl-2-oxo-3-(3-trifluoromethyl-  
phenyl)-2,3-dihydro-imidazole-1-carbonyl]-amino}-propionyl)-1,1-dimethyl-piperazin-1-  
ium benzene sulfonate;

15 2-{{[5-[2-(4-Cyano-phenyl)-2H-pyrazol-3-yl]-4-methyl-2-oxo-3-(3-trifluoromethyl-  
phenyl)-2,3-dihydro-imidazole-1-carbonyl]-amino}-7,7-dimethyl-7-azonia-  
spiro[3.5]nonane benzene sulfonate;

4-((R)-1-{{[5-[2-(4-Cyano-phenyl)-2H-pyrazol-3-yl]-4-methyl-2-oxo-3-(3-  
trifluoromethyl-phenyl)-2,3-dihydro-imidazole-1-carbonyl]-amino}-ethyl)-1-methyl-

20 pyridinium benzene sulfonate;

(Cis-4-{{[5-[2-(4-cyano-phenyl)-2H-pyrazol-3-yl]-4-methyl-2-oxo-3-(3-trifluoromethyl-  
phenyl)-2,3-dihydro-imidazole-1-carbonyl]-amino}-cyclohexylmethyl)-trimethyl-  
ammonium benzene sulfonate;

Benzyl-(cis-4-{{[5-[2-(4-cyano-phenyl)-2H-pyrazol-3-yl]-4-methyl-2-oxo-3-(3-

25 trifluoromethyl-phenyl)-2,3-dihydro-imidazole-1-carbonyl]-amino}-cyclohexylmethyl)-  
dimethyl-ammonium bromide;

(Cis-4-{{[5-[2-(4-cyano-phenyl)-2H-pyrazol-3-yl]-4-methyl-2-oxo-3-(3-trifluoromethyl-  
phenyl)-2,3-dihydro-imidazole-1-carbonyl]-amino}-cyclohexylmethyl)-ethyl-dimethyl-

ammonium benzene sulfonate;

(3aR,5S,6aS)-5-{[5-[2-(4-Cyano-phenyl)-2H-pyrazol-3-yl]-4-methyl-2-oxo-3-(3-trifluoromethyl-phenyl)-2,3-dihydro-imidazole-1-carbonyl]-amino}-2,2-dimethyl-octahydro-cyclopenta[c]pyrrolium benzene sulfonate;

5 4-((S)-2-{[5-[2-(4-Cyano-phenyl)-2H-pyrazol-3-yl]-4-methyl-2-oxo-3-(3-trifluoromethyl-phenyl)-2,3-dihydro-imidazole-1-carbonyl]-amino}-propionylamino)-1,1-dimethyl-piperidinium benzene sulfonate;

[4-((S)-1-{[5-[2-(4-Cyano-phenyl)-2H-pyrazol-3-yl]-4-methyl-2-oxo-3-(3-trifluoromethyl-phenyl)-2,3-dihydro-imidazole-1-carbonyl]-amino}-ethyl)-benzyl]-

10 trimethyl-ammonium benzene sulfonate;

[4-((S)-1-{[5-[2-(4-Cyano-phenyl)-2H-pyrazol-3-yl]-4-methyl-2-oxo-3-(3-trifluoromethyl-phenyl)-2,3-dihydro-imidazole-1-carbonyl]-amino}-ethyl)-benzyl]-trimethyl-ammonium benzene sulfonate;

[5-((S)-1-{[5-[2-(4-Cyano-phenyl)-2H-pyrazol-3-yl]-4-methyl-2-oxo-3-(3-trifluoromethyl-phenyl)-2,3-dihydro-imidazole-1-carbonyl]-amino}-ethyl)-

15 [1,2,4]oxadiazol-3-ylmethyl]-trimethyl-ammonium benzene sulfonate;

[2-(4-{[5-[2-(4-Cyano-phenyl)-2H-pyrazol-3-yl]-4-methyl-2-oxo-3-(3-trifluoromethyl-phenyl)-2,3-dihydro-imidazole-1-carbonyl]-amino}-piperidin-1-yl)-2-oxo-ethyl]-trimethyl-ammonium benzene sulfonate;

20 4-{[[(S)-2-{[5-[2-(4-Cyano-phenyl)-2H-pyrazol-3-yl]-4-methyl-2-oxo-3-(3-trifluoromethyl-phenyl)-2,3-dihydro-imidazole-1-carbonyl]-amino}-propionyl)-methyl-amino]-methyl]-1,1-dimethyl-piperidinium benzene sulfonate;

[5-((S)-1-{[5-[2-(4-Cyano-phenyl)-2H-pyrazol-3-yl]-4-methyl-2-oxo-3-(3-trifluoromethyl-phenyl)-2,3-dihydro-imidazole-1-carbonyl]-amino}-ethyl)-

25 [1,3,4]oxadiazol-2-ylmethyl]-trimethyl-ammonium benzene sulfonate;

[2-((S)-1-{[5-[2-(4-Cyano-phenyl)-2H-pyrazol-3-yl]-4-methyl-2-oxo-3-(3-trifluoromethyl-phenyl)-2,3-dihydro-imidazole-1-carbonyl]-amino}-ethyl)-oxazol-5-ylmethyl]-trimethyl-ammonium benzene sulfonate;

- [3-(4-{[5-[2-(4-Cyano-phenyl)-2H-pyrazol-3-yl]-4-methyl-2-oxo-3-(3-trifluoromethyl-phenyl)-2,3-dihydro-imidazole-1-carbonyl]-amino}-piperidin-1-yl)-3-oxo-propyl]-trimethyl-ammonium benzene sulfonate;
- 9-{[5-[2-(4-Cyano-phenyl)-2H-pyrazol-3-yl]-4-methyl-2-oxo-3-(3-trifluoromethyl-phenyl)-2,3-dihydro-imidazole-1-carbonyl]-amino}-3,3-dimethyl-3-azonia-
- 5 spiro[5.5]undecane benzene sulfonate;
- (Cis-3-{[5-[2-(4-cyano-phenyl)-2H-pyrazol-3-yl]-4-methyl-2-oxo-3-(3-trifluoromethyl-phenyl)-2,3-dihydro-imidazole-1-carbonyl]-amino}-cyclobutylmethyl)-trimethyl-ammonium benzene sulfonate;
- 10 (Trans-3-{[5-[2-(4-cyano-phenyl)-2H-pyrazol-3-yl]-4-methyl-2-oxo-3-(3-trifluoromethyl-phenyl)-2,3-dihydro-imidazole-1-carbonyl]-amino}-cyclobutylmethyl)-trimethyl-ammonium benzene sulfonate;
- [1-((S)-2-{[5-[2-(4-Cyano-phenyl)-2H-pyrazol-3-yl]-4-methyl-2-oxo-3-(3-trifluoromethyl-phenyl)-2,3-dihydro-imidazole-1-carbonyl]-amino}-propionyl)-piperidin-
- 15 4-yl]-trimethyl-ammonium benzene sulfonate;
- Benzyl-[1-((S)-2-{[5-[2-(4-cyano-phenyl)-2H-pyrazol-3-yl]-4-methyl-2-oxo-3-(3-trifluoromethyl-phenyl)-2,3-dihydro-imidazole-1-carbonyl]-amino}-propionyl)-piperidin-4-yl]-dimethyl-ammonium bromide;
- {2-(((S)-2-{[5-[2-(4-Cyano-phenyl)-2H-pyrazol-3-yl]-4-methyl-2-oxo-3-(3-trifluoromethyl-phenyl)-2,3-dihydro-imidazole-1-carbonyl]-amino}-propionyl)-methyl-
- 20 amino)-ethyl}-trimethyl-ammonium benzene sulfonate;
- (Trans-4-{[5-[2-(4-cyano-phenyl)-2H-pyrazol-3-yl]-4-methyl-2-oxo-3-(3-trifluoromethyl-phenyl)-2,3-dihydro-imidazole-1-carbonyl]-amino}-cyclohexyl)-dimethyl-[1,2,4]oxadiazol-3-ylmethyl-ammonium chloride;
- 25 [2-((S)-1-{[5-[2-(4-Cyano-phenyl)-2H-pyrazol-3-yl]-4-methyl-2-oxo-3-(3-trifluoromethyl-phenyl)-2,3-dihydro-imidazole-1-carbonyl]-amino}-2-methyl-propyl)-oxazol-5-ylmethyl]-trimethyl-ammonium benzene sulfonate;
- [2-((S)-1-{[5-[2-(4-Cyano-phenyl)-2H-pyrazol-3-yl]-4-methyl-2-oxo-3-(3-

- trifluoromethyl-phenyl)-2,3-dihydro-imidazole-1-carbonyl]-amino}-propyl)-oxazol-5-ylmethyl]-trimethyl-ammonium benzene sulfonate;
- (4-{[5-[2-(4-Cyano-phenyl)-2H-pyrazol-3-yl]-4-methyl-2-oxo-3-(3-trifluoromethyl-phenyl)-2,3-dihydro-imidazole-1-carbonyl]-amino}-cyclohexyl)-dimethyl-(5-methyl-
- 5 isoxazol-3-ylmethyl)-ammonium chloride;
- (4-{[5-[2-(4-Cyano-phenyl)-2H-pyrazol-3-yl]-4-methyl-2-oxo-3-(3-trifluoromethyl-phenyl)-2,3-dihydro-imidazole-1-carbonyl]-amino}-cyclohexyl)-(2,5-dimethyl-2H-pyrazol-3-ylmethyl)-dimethyl-ammonium chloride;
- {2-[(Trans-4-{[5-[2-(4-cyano-phenyl)-2H-pyrazol-3-yl]-4-methyl-2-oxo-3-(3-
- 10 trifluoromethyl-phenyl)-2,3-dihydro-imidazole-1-carbonyl]-amino}-cyclohexanecarbonyl)-amino]-ethyl}-trimethyl-ammonium benzene sulfonate
- [2-(1-{[5-[2-(4-Cyano-phenyl)-2H-pyrazol-3-yl]-4-methyl-2-oxo-3-(3-trifluoromethyl-phenyl)-2,3-dihydro-imidazole-1-carbonyl]-amino}-1-methyl-ethyl)-oxazol-5-ylmethyl]-trimethyl-ammonium benzene sulfonate;
- 15 [2-(1-{[5-[2-(4-Cyano-phenyl)-2H-pyrazol-3-yl]-4-methyl-2-oxo-3-(3-trifluoromethyl-phenyl)-2,3-dihydro-imidazole-1-carbonyl]-amino}-cyclopropyl)-oxazol-5-ylmethyl]-trimethyl-ammonium benzene sulfonate;
- {2-[(Cis-4-{[5-[2-(4-cyano-phenyl)-2H-pyrazol-3-yl]-4-methyl-2-oxo-3-(3-
- trifluoromethyl-phenyl)-2,3-dihydro-imidazole-1-carbonyl]-amino}-cyclohexanecarbonyl)-amino]-ethyl}-trimethyl-ammonium benzene sulfonate;
- 20 {2-[(Cis-3-{[5-[2-(4-cyano-phenyl)-2H-pyrazol-3-yl]-4-methyl-2-oxo-3-(3-trifluoromethyl-phenyl)-2,3-dihydro-imidazole-1-carbonyl]-amino}-cyclobutanecarbonyl)-amino]-ethyl}-trimethyl-ammonium benzene sulfonate;
- [2-(Trans-4-{[5-[2-(4-cyano-phenyl)-2H-pyrazol-3-yl]-4-methyl-2-oxo-3-(3-
- 25 trifluoromethyl-phenyl)-2,3-dihydro-imidazole-1-carbonyl]-amino}-cyclohexanecarbonyloxy)-ethyl]-trimethyl-ammonium benzene sulfonate;
- {2-[(Trans-3-{[5-[2-(4-cyano-phenyl)-2H-pyrazol-3-yl]-4-methyl-2-oxo-3-(3-trifluoromethyl-phenyl)-2,3-dihydro-imidazole-1-carbonyl]-amino}-

- cyclobutanecarbonyl)-amino]-ethyl}-trimethyl-ammonium benzene sulfonate;  
 [2-(4-{[5-[2-(4-Cyano-phenyl)-2H-pyrazol-3-yl]-4-methyl-2-oxo-3-(3-trifluoromethyl-phenyl)-2,3-dihydro-imidazole-1-carbonyl]-amino}-4-methyl-piperidin-1-yl)-2-oxo-ethyl]-trimethyl-ammonium benzene sulfonate;
- 5  $\pm$ [2-(1-{[5-[2-(4-Cyano-phenyl)-2H-pyrazol-3-yl]-4-methyl-2-oxo-3-(3-trifluoromethyl-phenyl)-2,3-dihydro-imidazole-1-carbonyl]-amino}-ethyl)-thiazol-4-ylmethyl]-trimethyl-ammonium benzene sulfonate;
- {[(Trans-4-{[5-[2-(4-cyano-phenyl)-2H-pyrazol-3-yl]-4-methyl-2-oxo-3-(3-trifluoromethyl-phenyl)-2,3-dihydro-imidazole-1-carbonyl]-amino}-cyclohexylmethyl)-carbamoyl]-methyl}-trimethyl-ammonium benzene sulfonate;
- 10 [(Trans-4-{[5-[2-(4-cyano-phenyl)-2H-pyrazol-3-yl]-4-methyl-2-oxo-3-(3-trifluoromethyl-phenyl)-2,3-dihydro-imidazole-1-carbonyl]-amino}-cyclohexylcarbamoyl)-methyl]-trimethyl-ammonium benzene sulfonate;
- [1-(Trans-4-{[5-[2-(4-cyano-phenyl)-2H-pyrazol-3-yl]-4-methyl-2-oxo-3-(3-trifluoromethyl-phenyl)-2,3-dihydro-imidazole-1-carbonyl]-amino}-cyclohexanecarbonyl)-piperidin-4-yl]-trimethyl-ammonium benzene sulfonate;
- 15 {2-[(Trans-4-{[5-[2-(4-cyano-phenyl)-2H-pyrazol-3-yl]-4-methyl-2-oxo-3-(3-trifluoromethyl-phenyl)-2,3-dihydro-imidazole-1-carbonyl]-amino}-cyclohexanecarbonyl)-methyl-amino]-ethyl}-trimethyl-ammonium benzene sulfonate;
- 4-[(Trans-4-{[5-[2-(4-cyano-phenyl)-2H-pyrazol-3-yl]-4-methyl-2-oxo-3-(3-trifluoromethyl-phenyl)-2,3-dihydro-imidazole-1-carbonyl]-amino}-cyclohexanecarbonyl)-amino]-1,1-dimethyl-piperidinium benzene sulfonate;
- 20 4-[(S)-2-{[5-[2-(4-Cyano-phenyl)-2H-pyrazol-3-yl]-4-methyl-2-oxo-3-(3-trifluoromethyl-phenyl)-2,3-dihydro-imidazole-1-carbonyl]-amino}-propionyl)-methyl-amino]-1,1-dimethyl-piperidinium benzene sulfonate;
- 25 {2-[(4-{[5-[2-(4-Cyano-phenyl)-2H-pyrazol-3-yl]-4-methyl-2-oxo-3-(3-trifluoromethyl-phenyl)-2,3-dihydro-imidazole-1-carbonyl]-amino}-piperidine-1-carbonyl)-amino]-ethyl}-trimethyl-ammonium benzene sulfonate;

[2-(4-{[5-[2-(4-Cyano-phenyl)-2H-pyrazol-3-yl]-4-methyl-2-oxo-3-(3-trifluoromethyl-phenyl)-2,3-dihydro-imidazole-1-carbonyl]-amino}-piperidine-1-carbonyloxy)-ethyl]-trimethyl-ammonium benzene sulfonate;

5 [2-(4-{[1-(4-Cyano-phenyl)-5'-methyl-2'-oxo-1'-(3-trifluoromethyl-phenyl)-1',2'-dihydro-1H-[2,4']biimidazolyl-3'-carbonyl]-amino}-piperidin-1-yl)-2-oxo-ethyl]-trimethyl-ammonium benzene sulfonate.

9. A pharmaceutical composition comprising a compound as claimed in any of claims 1 to 8 and a pharmaceutically acceptable carrier or excipient.

10. A pharmaceutical composition as claimed in claim 9 which is adapted for oral administration or administration by the pulmonary route.

11. A compound as claimed in any one of claims 1 to 8 for use in the treatment of a disease or condition in which HNE is implicated.

12. A compound for use according to claim 11, wherein the disease or condition is chronic obstructive pulmonary disease (COPD), bronchiectasis, chronic bronchitis, lung  
15 fibrosis, pneumonia, acute respiratory distress syndrome (ARDS), pulmonary emphysema, smoking-induced emphysema or cystic fibrosis.

13. A compound for use according to claim 11, wherein the disease or condition is asthma, rhinitis, psoriasis, atopic dermatitis, non-atopic dermatitis, Crohn's disease, ulcerative colitis, or irritable bowel disease.

20 14. A method of treatment of a disease or condition in which HNE is implicated, comprising administering to a subject suffering such disease an effective amount of a compound as claimed in any one of claims 1 to 8.