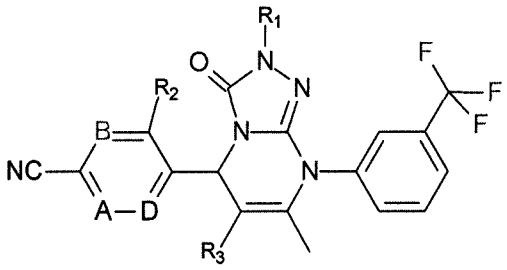
CLAIMS

1. A compound of formula (I):



wherein

A is CH;

B is CH;

D is CH;

$R_1$is: hydrogen;

$(C_1\text{-}C_6)$alkyl;

$NR_7R_8(C_1\text{-}C_6)$alkyl;

$(C_1\text{-}C_4)$alkenyl;

phenyl$(C_1\text{-}C_6)$alkyl wherein said phenyl ring is optionally substituted by a $NR_{15}R_{16}(C_1\text{-}C_6)$alkyl or by $N^+R_{15}R_{16}R_{17}(C_1\text{-}C_6)$alkyl;

a group —$CH_2(CH_2)_nOH$;

a group —$(CH_2)_nCONR_5R_6$;

a group —$(CH_2)_nSO_2NR_5R_6$;

a group —CH_2—$(CH_2)_nNR_5SO_2R_6$;

a group —$(CH_2)_t$—(C_6H_4)—$SO_2(C_1\text{-}C_4)$alkyl;

group —$(CH_2)_rSO_2(C_1\text{-}C_4)$alkyl wherein the $(C_1\text{-}C_4)$alkyl is optionally substituted by —$NR_{15}R_{16}$ or —$N^+R_{15}R_{16}R_{17}$;

a group —SO_2-phenyl wherein the phenyl ring is optionally substituted by $NR_7R_8(C_1\text{-}C_6)$alkyl; or

a group —$(CH_2)_n$—W wherein W is a 5-6-membered heteroaryl ring which is optionally substituted by —$SO_2(C_1\text{-}C_4)$alkyl;

n is 1, 2 or 3;

t is zero, 1, 2 or 3;

r is zero, 1, 2, 3 or 4;

R_5 is: hydrogen, $(C_1\text{-}C_6)$alkyl, $NR_{16}R_{15}(C_1\text{-}C_6)$alkyl or $N^+R_{17}R_{15}R_{16}(C_1\text{-}C_6)$alkyl;

R_6 is hydrogen or $(C_1\text{-}C_6)$alkyl;

R_7 is: hydrogen, $(C_1\text{-}C_6)$alkyl, $(C_1\text{-}C_6)$alkylcarbonyl, —$S0_2(C_1\text{-}C_4)$alkyl, or $NR_{16}R_{15}(C_1\text{-}C_6)$alkyl;

R_8 is hydrogen or $(C_1\text{-}C_6)$alkyl; alternatively, R_7 and R_8 may form, together with the nitrogen atom to which they are attached, a $(C_5\text{-}C_7)$heterocycloalkyl ring system which is optionally substituted by one or more $(C_1\text{-}C_6)$ alkyl groups or oxo;

R_{16} is hydrogen or $(C_1\text{-}C_6)$alkyl;

R_{15} is hydrogen or $(C_1\text{-}C_6)$alkyl;

R_{17} is hydrogen or $(C_1\text{-}C_6)$alkyl;

R_3 is —C(O)—XR_4;

X is: —O—;

R_4 is: hydrogen; or

$(C_1\text{-}C_6)$alkyl;

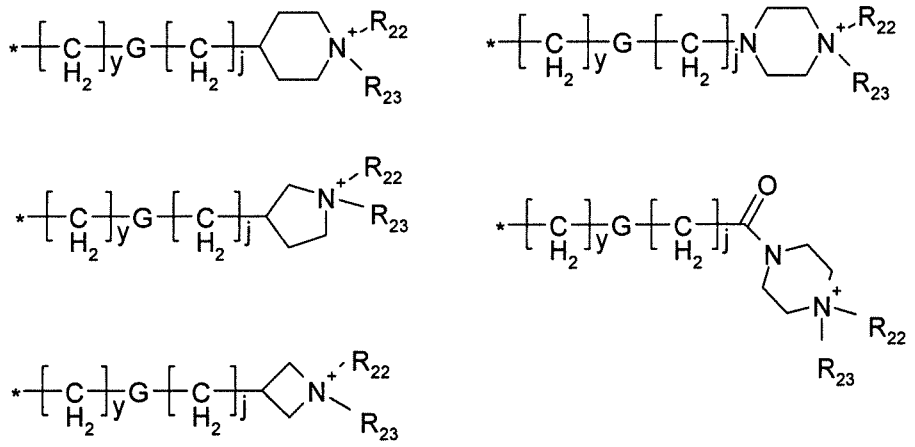
R_2 is: $NR_{18}R_{19}(C_1\text{-}C_6)$alkyl;

—$CONR_{21}R_{20}$;

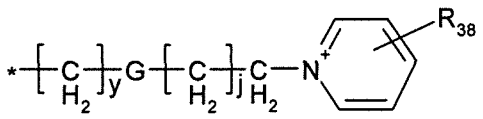
$C_2\text{-}C_6$-alkenyl which is substituted by —OH or —$NR_{18}R_{19}$;

$C_2\text{-}C_6$-alkynyl which is substituted by —OH or —$NR_{18}R_{19}$; or

a group —$[CH_2]_y$-G-$[CH_2]_j$—CH_2—$N^+R_{22}R_{23}R_{24}$ or R_2 is a group:



or R_2 is a group:



R_{14} is hydrogen or $(C_1\text{-}C_6)$alkyl which may be optionally substituted by a $(C_1\text{-}C_4)$alkoxyl group;

R_{18} is hydrogen or $(C_1\text{-}C_6)$alkyl;

R_{19} is hydrogen or $(C_1\text{-}C_6)$alkyl;

R_{20} is: hydrogen, $(C_1\text{-}C_6)$alkyl, or $(C_1\text{-}C_6)$alkyl$NR_{18}R_{19}$;

R_{21} is hydrogen or $(C_1\text{-}C_6)$alkyl;

j is an integer ranging from zero to 4;

y is an integer ranging from zero to 4;

G is a divalent linker selected from the group consisting of: —O—, —(SO_2)—, NR_{25}, a bond, $C_2\text{-}C_6$-alkenylene, $C_2\text{-}C_6$-alkynylene, $(C_3\text{-}C_6)$cycloalkylene, monocyclic heterocycloalkylene, bicyclic heterocycloalkylene, —[$CONR_{25}$]— and —[$NR_{25}CO$]—;

R_{25} is hydrogen or $(C_1\text{-}C_6)$alkyl;

R_{22} is: $(C_1\text{-}C_6)$alkyl, which is optionally substituted by one or more of $(C_3\text{-}C_6)$cycloalkyl, phenyl, benzyl, CN, —OR_{26}, —SO_2R_{26}, —CO_2R_{26}, —$CONR_{26}R_{27}$ or —$SO_2NR_{26}R_{27}$; $(C_3\text{-}C_{10})$cycloalkyl which is optionally substituted by one or more of —OR_{26}, —SO_2R_{26}, —CO_2R_{26}, —$CONR_{26}R_{27}$ or —$SO_2NR_{26}R_{27}$; or

$(C_4\text{-}C_7)$heterocycloalkyl which is optionally substituted by one or more of —OR_{26}, —SO_2R_{26}, —CO_2R_{26}, —$CONR_{26}R_{27}$ or —$SO_2NR_{26}R_{27}$;

R_{26} is hydrogen or $(C_1\text{-}C_6)$alkyl;

R_{27} is hydrogen or $(C_1\text{-}C_6)$alkyl;

R_{23} is hydrogen or $(C_1\text{-}C_6)$alkyl, which $(C_1\text{-}C_6)$alkyl is optionally substituted by one or more of —OR_{29}, —SO_2R_{29}, —CO_2R_{29}, —$CONR_{29}R_{30}$ or —$SO_2NR_{29}R_{30}$;

R_{24} is hydrogen or $(C_1\text{-}C_6)$alkyl, which $(C_1\text{-}C_6)$alkyl is optionally substituted by one or more of —OR_{31}, —SO_2R_{31}, —CO_2R_{31}, —$CONR_{31}R_{32}$ or —$SO_2NR_{31}R_{32}$;

alternatively, R_{23} and R_{24} may form, together with the nitrogen atom to which they are attached, a 5-_{11}-membered saturated monocyclic or bicyclic heterocyclic ring system which is optionally substituted by one or more of —OR_{28}, halo, $C_1\text{-}C_6$ alkyl, —SO_2R_{33}, —CO_2R_{33}, —$CONR_{33}R_{34}$ or —$SO_2NR_{33}R_{34}$; and which 5-_{11}-membered

saturated monocyclic or bicyclic ring optionally contains a further heteroatom which is oxygen or nitrogen or a —SO_2— group;

or R_{22} together with R_{23}, R_{24} and the nitrogen atom to which they are attached, may form a bridged bicyclic heterocyclic ring;

R_{28} is hydrogen or (C_1-C_6)alkyl;

R_{29} is hydrogen or (C_1-C_6)alkyl;

R_{30} is hydrogen or (C_1-C_6)alkyl;

R_{31} is hydrogen or (C_1-C_6)alkyl;

R_{32} is hydrogen or (C_1-C_6)alkyl;

R_{33} is hydrogen or (C_1-C_6)alkyl;

R_{34} is hydrogen or (C_1-C_6)alkyl;

R_{38} represents one or two optional substituents at each occurrence independently selected from the group consisting of: (C_1-C_6)alkyl, (C_1-C_6)alkoxyl, hydroxyl, hydroxyl-C_1-C_6-alkyl, halo, trifluoromethyl, and trifluoromethoxy;

wherein if one or more groups $N^+R_{11}R_{12}R_{13}$— or $N^+R_{15}R_{16}R_{17}$— are present, they form a quaternary salt with a pharmaceutically acceptable counter ion;

and wherein groups R_5 to R_{38}, and n may have the same or different meanings at each occurrence, if present in more than one group, or a pharmaceutically acceptable salt thereof.

2. The compound or pharmaceutically acceptable salt according to claim 1, wherein R_2 is —$[CH_2]_y$-G-$[CH_2]_j$—CH_2—$N^+R_{22}R_{23}R_{24}$.

3. The compound or pharmaceutically acceptable salt according to claim 1, wherein R_4 is (C_1-C_6)alkyl.

4. The compound or pharmaceutically acceptable salt according to claim 1, wherein R_1 is hydrogen or —(CH_2),SO_2(C_1-C_4)alkyl.

5. A compound which is selected from the group consisting of:

5-[4-cyano-2-(4-hydroxy-but-1-ynyl)-phenyl]-7-methyl-3-oxo-8-(3-trifluoro-methyl-phenyl)-2,3,5,8-tetrahydro-[1,2,4]triazolo[4,3-a]pyrimidine-6-carbo-xylic acid methyl ester;

5-[4-cyano-2-(3-dimethylamino-prop-1-ynyl)-phenyl]-7-methyl-3-oxo-8-(3-trifluoromethyl-phenyl)-2,3,5,8-tetrahydro-[1,2,4]triazolo[4,3-a]pyrimidine-6-carboxylic acid methyl ester;

5-[4-cyano-2-(3-dimethylamino-prop-1-ynyl)-phenyl]-2-(3-methanesulfonyl-propyl)-7-methyl-3-oxo-8-(3-trifluoromethyl-phenyl)-2,3,5,8-tetrahydro-[1,2,4]triazolo[4,3-a]pyrimidine-6-carboxylic acid methyl ester;

(3-{5-cyano-2-[2-(3-methanesulfonyl-propyl)-6-methoxycarbonyl-7-methyl-3-oxo-8-m-tolyl-2,3,5,8-tetrahydro-[1,2,4]triazolo[4,3-a]pyrimidin-5-yl]-phenyl}-prop-2-ynyl)-trimethyl-ammonium formate;

5-[4-cyano-2-(3-dimethylamino-propyl)-phenyl]-7-methyl-3-oxo-8-(3-trifluoromethyl-phenyl)-2,3,5,8-tetrahydro-[1,2,4]triazolo[4,3-a]pyrimidine-6-carboxylic acid methyl ester;

5-(4-cyano-2-dimethylaminomethyl-phenyl)-7-methyl-3-oxo-8-(3-trifluoromethyl-phenyl)-2,3,5,8-tetrahydro-[1,2,4]triazolo[4,3-a]pyrimidine-6-carboxylic acid methyl ester;

{5-cyano-2-[6-methoxycarbonyl-7-methyl-3-oxo-8-(3-trifluoromethyl-phenyl)-2,3,5,8-tetrahydro-[1,2,4]triazolo[4,3-a]pyrimidin-5-yl]-benzyl}-trimethyl-ammonium bromide;

(2-{5-cyano-2-[6-methoxycarbonyl-7-methyl-3-oxo-8-(3-trifluoromethyl-phenyl)-2,3,5,8-tetrahydro-[1,2,4]triazolo[4,3-a]pyrimidin-5-yl]-benzoylamino}-ethyl)-trimethyl-ammonium chloride;

{5-cyano-2-[(R)-6-methoxycarbonyl-7-methyl-3-oxo-8-(3-trifluoromethyl-phenyl)-2,3,5,8-tetrahydro-[1,2,4]triazolo[4,3-a]pyrimidin-5-yl]-benzyl}-trimethyl-ammonium formate;

(R)-5-[4-cyano-2-(3-dimethylamino-propyl)-phenyl]-7-methyl-3-oxo-8-(3-trifluoromethyl-phenyl)-2,3,5,8-tetrahydro-[1,2,4]triazolo[4,3-a]pyrimidine-6-carboxylic acid methyl ester;

(3-{5-cyano-2-[(R)-6-methoxycarbonyl-7-methyl-3-oxo-8-(3-trifluoromethyl-phenyl)-2,3,5,8-tetrahydro-[1,2,4]triazolo[4,3-a]pyrimidin-5-yl]-phenyl}-prop-2-ynyl)-trimethyl-ammonium iodide;

(R)-5-[4-cyano-2-(3-dimethylamino-prop-1-ynyl)-phenyl]-7-methyl-3-oxo-8-(3-trifluoromethyl-phenyl)-2,3,5,8-tetrahydro-[1,2,4]triazolo[4,3-a]pyrimidine-6-carboxylic acid methyl ester;

(3-{5-cyano-2-[(R)-6-methoxycarbonyl-7-methyl-3-oxo-8-(3-trifluoromethyl-phenyl)-2,3,5,8-tetrahydro-[1,2,4]triazolo[4,3-a]pyrimidin-5-yl]-phenyl}-propyl)-trimethyl-ammonium iodide;

5-[4-cyano-2-(4-hydroxy-but-1-ynyl)-phenyl]-7-methyl-3-oxo-8-(3-trifluoromethyl-phenyl)-2,3,5,8-tetrahydro-[1,2,4]triazolo[4,3-a]pyrimidine-6-carboxylic acid methyl ester;

5-[4-cyano-2-(3-dimethylamino-prop-1-ynyl)-phenyl]-7-methyl-3-oxo-8-(3-trifluoromethyl-phenyl)-2,3,5,8-tetrahydro-[1,2,4]triazolo[4,3-a]pyrimidine-6-carboxylic acid methyl ester;

5-[4-cyano-2-(3-dimethylamino-prop-1-ynyl)-phenyl]-2-(3-methanesulfonyl-propyl)-7-methyl-3-oxo-8-(3-trifluoromethyl-phenyl)-2,3,5,8-tetrahydro-[1,2,4]triazolo[4,3-a]pyrimidine-6-carboxylic acid methyl ester;

(3-{5-cyano-2-[2-(3-methanesulfonyl-propyl)-6-methoxycarbonyl-7-methyl-3-oxo-8-m-tolyl-2,3,5,8-tetrahydro-[1,2,4]triazolo[4,3-a]pyrimidin-5-yl]-phenyl}-prop-2-ynyl)-trimethyl-ammonium formate;

5-[4-cyano-2-(3-dimethylamino-propyl)-phenyl]-7-methyl-3-oxo-8-(3-trifluoromethyl-phenyl)-2,3,5,8-tetrahydro-[1,2,4]triazolo[4,3-a]pyrimidine-6-carboxylic acid methyl ester;

5-(4-cyano-2-dimethylaminomethyl-phenyl)-7-methyl-3-oxo-8-(3-trifluoromethyl-phenyl)-2,3,5,8-tetrahydro-[1,2,4]triazolo[4,3-a]pyrimidine-6-carboxylic acid methyl ester;

{5-cyano-2-[6-methoxycarbonyl-7-methyl-3-oxo-8-(3-trifluoromethyl-phenyl)-2,3,5,8-tetrahydro-[1,2,4]triazolo[4,3-a]pyrimidin-5-yl]-benzyl}-trimethyl-ammonium bromide;

(2-{5-cyano-2-[6-methoxycarbonyl-7-methyl-3-oxo-8-(3-trifluoromethyl-phenyl)-2,3,5,8-tetrahydro-[1,2,4]triazolo[4,3-a]pyrimidin-5-yl]-benzoylamino}-ethyl)-trimethyl-ammonium chloride;

{5-cyano-2-[(R)-6-methoxycarbonyl-7-methyl-3-oxo-8-(3-trifluoromethyl-phenyl)-2,3,5,8-tetrahydro-[1,2,4]triazolo[4,3-a]pyrimidin-5-yl]-benzyl}-trimethyl-ammonium formate;

(R)-5-[4-cyano-2-(3-dimethylamino-propyl)-phenyl]-7-methyl-3-oxo-8-(3-trifluoromethyl-phenyl)-2,3,5,8-tetrahydro-[1,2,4]triazolo[4,3-a]pyrimidine-6-carboxylic acid methyl ester;

(3-{5-cyano-2-[(R)-6-methoxycarbonyl-7-methyl-3-oxo-8-(3-trifluoromethyl-phenyl)-2,3,5,8-tetrahydro-[1,2,4]triazolo[4,3-a]pyrimidin-5-yl]-phenyl}-prop-2-ynyl)-trimethyl-ammonium iodide;

(R)-5-[4-cyano-2-(3-dimethylamino-prop-1-ynyl)-phenyl]-7-methyl-3-oxo-8-(3-trifluoromethyl-phenyl)-2,3,5,8-tetrahydro-[1,2,4]triazolo[4,3-a]pyrimidine-6-carboxylic acid methyl ester;

(3-{5-cyano-2-[(R)-6-methoxycarbonyl-7-methyl-3-oxo-8-(3-trifluoromethyl-phenyl)-2,3,5,8-tetrahydro-[1,2,4]triazolo[4,3-a]pyrimidin-5-yl]-phenyl}-propyl)-trimethyl-ammonium iodide;

(3-{5-cyano-2-[(R)-6-methoxycarbonyl-7-methyl-3-oxo-8-(3-trifluoromethyl-phenyl)-2,3,5,8-tetrahydro-[1,2,4]triazolo[4,3-a]pyrimidin-5-yl]-phenyl}-propyl)-trimethyl-ammonium iodide;

(3-{5-cyano-2-[(R)-6-methoxycarbonyl-7-methyl-3-oxo-8-(3-trifluoromethyl-phenyl)-2,3,5,8-tetrahydro-[1,2,4]triazolo[4,3-a]pyrimidin-5-yl]-phenyl}-propyl)-(3-methanesulfonyl-propyl)-dimethyl-ammonium formate;

(3-{5-cyano-2-[(R)-6-methoxycarbonyl-7-methyl-3-oxo-8-(3-trifluoromethyl-phenyl)-2,3,5,8-tetrahydro-[1,2,4]triazolo[4,3-a]pyrimidin-5-yl]-phenyl}-propyl)-cyclopropylmethyl-dimethyl-ammonium formate;

(3-{5-cyano-2-[(R)-6-methoxycarbonyl-7-methyl-3-oxo-8-(3-trifluoromethyl-phenyl)-2,3,5,8-tetrahydro-[1,2,4]triazolo[4,3-a]pyrimidin-5-yl]-phenyl}-propyl)-(3-hydroxy-propyl)-dimethyl-ammonium formate;

(3-{5-cyano-2-[(R)-6-methoxycarbonyl-7-methyl-3-oxo-8-(3-trifluoromethyl-phenyl)-2,3,5,8-tetrahydro[1,2,4]triazolo[4,3-a]pyrimidin-5-yl]-phenyl}-propyl)-(3-methoxy-propyl)-dimethyl-ammonium formate;

(3-{5-cyano-2-[(R)-6-methoxycarbonyl-7-methyl-3-oxo-8-(3-trifluoromethyl-phenyl)-2,3,5,8-tetrahydro[1,2,4]triazolo[4,3-a]pyrimidin-5-yl]-phenyl}-propyl)-dimethylcarbamoylmethyl-dimethyl-ammonium formate;

1-(3-{5-cyano-2-[(R)-6-methoxycarbonyl-7-methyl-3-oxo-8-(3-trifluoromethyl-phenyl)-2,3,5,8-tetrahydro-[1,2,4]triazolo[4,3-a]pyrimidin-5-yl]-phenyl}-propyl)-1-azonia-bicyclo[2.2.2]octane formate;

1-(3-{5-cyano-2-[(R)-6-methoxycarbonyl-7-methyl-3-oxo-8-(3-trifluoromethyl-phenyl)-2,3,5,8-tetrahydro[1,2,4]triazolo[4,3-a]pyrimidin-5-yl]-phenyl}-propyl)-4-aza-1-azonia-bicyclo[2.2.2]octane formate;

(3-{5-cyano-2-[(R)-6-methoxycarbonyl-7-methyl-3-oxo-8-(3-trifluoromethyl-phenyl)-2,3,5,8-tetrahydro-[1,2,4]triazolo[4,3-a]pyrimidin-5-yl]-phenyl}-propyl)-(4-hydroxy-cyclohexyl)-dimethyl-ammonium formate;

4-(3-{5-cyano-2-[(R)-6-methoxycarbonyl-7-methyl-3-oxo-8-(3-trifluoromethyl-phenyl)-2,3,5,8-tetrahydro-[1,2,4]triazolo[4,3-a]pyrimidin-5-yl]-phenyl}-propyl)-4-methyl-morpholin-4-ium formate;

adamantan-1-yl-(3-{5-cyano-2-[(R)-6-methoxycarbonyl-7-methyl-3-oxo-8-(3-trifluoromethyl-phenyl)-2,3,5,8-tetrahydro-[1,2,4]triazolo[4,3-a]pyrimidin-5-yl]-phenyl}-propyl)-ammonium formate;

4-{5-cyano-2-[(R)-6-methoxycarbonyl-7-methyl-3-oxo-8-(3-trifluoromethyl-phenyl)-2,3,5,8-tetrahydro-[1,2,4]triazolo[4,3-a]pyrimidin-5-yl]-benzyl}-4-methyl-morpholin-4-ium formate;

{5-cyano-2-[(R)-6-methoxycarbonyl-7-methyl-3-oxo-8-(3-trifluoromethyl-phenyl)-2,3,5,8-tetrahydro-[1,2,4]triazolo[4,3-a]pyrimidin-5-yl]-benzyl}-(3-hydroxy-propyl)-dimethyl-ammonium formate;

{5-cyano-2-[(R)-6-methoxycarbonyl-7-methyl-3-oxo-8-(3-trifluoromethyl-phenyl)-2,3,5,8-tetrahydro-[1,2,4]triazolo[4,3-a]pyrimidin-5-yl]-benzyl}-ethyl-dimethyl-ammonium formate;

1-{5-cyano-2-[(R)-6-methoxycarbonyl-7-methyl-3-oxo-8-(3-trifluoromethyl-phenyl)-2,3,5,8-tetrahydro-[1,2,4]triazolo[4,3-a]pyrimidin-5-yl]-benzyl}-pyridinium formate;

1-{5-cyano-2-[(R)-6-methoxycarbonyl-7-methyl-3-oxo-8-(3-trifluoromethyl-phenyl)-2,3,5,8-tetrahydro-[1,2,4]triazolo[4,3-a]pyrimidin-5-yl]-benzyl}-1-azonia-bicyclo[2.2.2]octane formate;

1-{5-cyano-2-[(R)-6-methoxycarbonyl-7-methyl-3-oxo-8-(3-trifluoromethyl-phenyl)-2,3,5,8-tetrahydro-[1,2,4]triazolo[4,3-a]pyrimidin-5-yl]-benzyl}-1,4-dimethyl-piperazin-1-ium formate;

{5-cyano-2-[(R)-6-methoxycarbonyl-7-methyl-3-oxo-8-(3-trifluoromethyl-phenyl)-2,3,5,8-tetrahydro-[1,2,4]triazolo[4,3-a]pyrimidin-5-yl]-benzyl}-(4-hydroxy-cyclohexyl)-dimethyl-ammonium formate;

1-{5-cyano-2-[(R)-6-methoxycarbonyl-7-methyl-3-oxo-8-(3-trifluoromethyl-phenyl)-2,3,5,8-tetrahydro-[1,2,4]triazolo[4,3-a]pyrimidin-5-yl]-benzyl}-4-aza-1-azonia-bicyclo[2.2.2]octane formate;

1-{2-[(R)-6-carboxy-7-methyl-3-oxo-8-(3-trifluoromethyl-phenyl)-2,3,5,8-tetrahydro-[1,2,4]triazolo[4,3-a]pyrimidin-5-yl]-5-cyano-benzyl}-4-aza-1-azonia-bicyclo[2.2.2]octane formate;

butyl-{5-cyano-2-[(R)-6-methoxycarbonyl-7-methyl-3-oxo-8-(3-trifluoromethyl-phenyl)-2,3,5,8-tetrahydro-[1,2,4]triazolo[4,3-a]pyrimidin-5-yl]-benzyl}-dimethyl-ammonium formate;

1-{5-cyano-2-[(R)-6-methoxycarbonyl-7-methyl-3-oxo-8-(3-trifluoromethyl-phenyl)-2,3,5,8-tetrahydro-[1,2,4]triazolo[4,3-a]pyrimidin-5-yl]-benzyl}-4-hydroxy-1-methyl-piperidinium formate;

1-{5-cano-2-[(R)-6-methoxycarbonyl-7-methyl-3-oxo-8-(3-trifluoromethyl-phenyl)-2,3,5,8-tetrahydro-[1,2,4]triazolo[4,3-a]pyrimidin-5-yl]-benzyl}-1-methyl-pyrrolidinium formate;

1-{5-cyano-2-[(R)-6-methoxycarbonyl-7-methyl-3-oxo-8-(3-trifluoromethyl-phenyl)-2,3,5,8-tetrahydro-[1,2,4]triazolo[4,3-a]pyrimidin-5-yl]-benzyl}-1-methyl-piperidinium formate;

1-{5-cyano-2-[(R)-6-methoxycarbonyl-7-methyl-3-oxo-8-(3-trifluoromethyl-phenyl)-2,3,5,8-tetrahydro-[1,2,4]triazolo[4,3-a]pyrimidin-5-yl]-benzyl}-1-(2-hydroxy-ethyl)-pyrrolidinium formate;

{5-cyano-2-[(R)-6-methoxycarbonyl-7-methyl-3-oxo-8-(3-trifluoromethyl-phenyl)-2,3,5,8-tetrahydro-[1,2,4]triazolo[4,3-a]pyrimidin-5-yl]-benzyl}-(3-dimethyl-carbamoyl-propyl)-dimethyl-ammonium formate;

benzyl-{5-cyano-2-[(R)-6-methoxycarbonyl-7-methyl-3-oxo-8-(3-trifluoromethyl-phenyl)-2,3,5,8-tetrahydro-[1,2,4]triazolo[4,3-a]pyrimidin-5-yl]-benzyl}-dimethyl-ammonium formate;

(3-{5-cyano-2-[(R)-6-methoxycarbonyl-7-methyl-3-oxo-8-(3-trifluoromethyl-phenyl)-2,3,5,8-tetrahydro-[1,2,4]triazolo[4,3-a]pyrimidin-5-yl]-phenyl}-propyl)-trimethyl-ammonium bromide;

(3-{5-cyano-2-[(R)-6-methoxycarbonyl-7-methyl-3-oxo-8-(3-trifluoromethyl-phenyl)-2,3,5,8-tetrahydro-[1,2,4]triazolo[4,3-a]pyrimidin-5-yl]-phenyl}-propyl)-trimethyl-ammonium benzenesulfonate;

(5-{5-cyano-2-[(R)-6-methoxycarbonyl-7-methyl-3-oxo-8-(3-trifluoromethyl-phenyl)-2,3,5,8-tetrahydro-[1,2,4]triazolo[4,3-a]pyrimidin-5-yl]-phenyl}-pentyl)-trimethyl-ammonium formate;

(4-{5-cyano-2-[(R)-6-methoxycarbonyl-7-methyl-3-oxo-8-(3-trifluoromethyl-phenyl)-2,3,5,8-tetrahydro-[1,2,4]triazolo[4,3-a]pyrimidin-5-yl]-phenyl}-butyl)-trimethyl-ammonium formate;

1-(4-{5-cyano-2-[(R)-6-methoxycarbonyl-7-methyl-3-oxo-8-(3-trifluoromethyl-phenyl)-2,3,5,8-tetrahydro-[1,2,4]triazolo[4,3-a]pyrimidin-5-yl]-phenyl}-butyl)-1-azonia-bicyclo[2.2.2]octane formate;

1-(4-{5-cyano-2-[(R)-6-methoxycarbonyl-7-methyl-3-oxo-8-(3-trifluoromethyl-phenyl)-2,3,5,8-tetrahydro-[1,2,4]triazolo[4,3-a]pyrimidin-5-yl]-phenyl}-butyl)-1-azonia-bicyclo[2.2.2]octane formate;

(2-{5-cyano-2-[(R)-6-methoxycarbonyl-7-methyl-3-oxo-8-(3-trifluoromethyl-phenyl)-2,3,5,8-tetrahydro-[1,2,4]triazolo[4,3-a]pyrimidin-5-yl]-phenyl}-ethyl)-trimethyl-ammonium bromide;

(2-{5-cyano-2-[(R)-6-methoxycarbonyl-7-methyl-3-oxo-8-(3-trifluoromethyl-phenyl)-2,3,5,8-tetrahydro-[1,2,4]triazolo[4,3-a]pyrimidin-5-yl]-phenyl}-ethyl)-trimethyl-ammonium bromide;

1-(2-{5-cyano-2-[(R)-6-methoxycarbonyl-7-methyl-3-oxo-8-(3-trifluoromethyl-phenyl)-2,3,5,8-tetrahydro-[1,2,4]triazolo[4,3-a]pyrimidin-5-yl]-phenyl}-ethyl)-pyridinium bromide;

1-(2-{5-cyano-2-[(R)-6-methoxycarbonyl-7-methyl-3-oxo-8-(3-trifluoromethyl-phenyl)-2,3,5,8-tetrahydro-[1,2,4]triazolo[4,3-a]pyrimidin-5-yl]-phenyl}-ethyl)-pyridininium formate;

1-(3-{5-cyano-2-[(R)-6-methoxycarbonyl-7-methyl-3-oxo-8-(3-trifluoromethyl-phenyl)-2,3,5,8-tetrahydro-[1,2,4]triazolo[4,3-a]pyrimidin-5-yl]-phenyl}-propyl)-pyridinium bromide;

1-(3-{5-cyano-2-[(R)-6-methoxycarbonyl-7-methyl-3-oxo-8-(3-trifluoromethyl-phenyl)-2,3,5,8-tetrahydro-[1,2,4]triazolo[4,3-a]pyrimidin-5-yl]-phenyl}-propyl)-pyridinium formate;

1-(3-{5-cyano-2-[(R)-6-methoxycarbonyl-7-methyl-3-oxo-8-(3-trifluoromethyl-phenyl)-2,3,5,8-tetrahydro-[1,2,4]triazolo[4,3-a]pyrimidin-5-yl]-phenyl}-propyl)-pyridinium benzenesulfonate;

1-(3-{5-cyano-2-[(R)-6-methoxycarbonyl-7-methyl-3-oxo-8-(3-trifluoromethyl-phenyl)-2,3,5,8-tetrahydro-[1,2,4]triazolo[4,3-a]pyrimidin-5-yl]-phenyl}-propyl)-pyridinium chloride;

1-(3-{5-cyano-2-[(R)-6-methoxycarbonyl-7-methyl-3-oxo-8-(3-trifluoromethyl-phenyl)-2,3,5,8-tetrahydro-[1,2,4]triazolo[4,3-a]pyrimidin-5-yl]-phenyl}-propyl)-pyridinium 2-hydroxy-ethanesulfonate;

1-(3-{5-cyano-2-[(R)-6-methoxycarbonyl-7-methyl-3-oxo-8-(3-trifluoromethyl-phenyl)-2,3,5,8-tetrahydro-[1,2,4]triazolo[4,3-a]pyrimidin-5-yl]-phenyl}-propyl)-pyridinium methanesulfonate;

1-(3-{5-cyano-2-[(R)-6-methoxycarbonyl-7-methyl-3-oxo-8-(3-trifluoromethyl-phenyl)-2,3,5,8-tetrahydro-[1,2,4]triazolo[4,3-a]pyrimidin-5-yl]-phenyl}-propyl)-3-hydroxymethyl-pyridinium tosylate;

1-(3-{5-cyano-2-[(R)-6-methoxycarbonyl-7-methyl-3-oxo-8-(3-trifluoromethyl-phenyl)-2,3,5,8-tetrahydro-[1,2,4]triazolo[4,3-a]pyrimidin-5-yl]-phenyl}-propyl)-3-methyl-pyridinium formate;

1-(3-{5-cyano-2-[(R)-6-methoxycarbonyl-7-methyl-3-oxo-8-(3-trifluoromethyl-phenyl)-2,3,5,8-tetrahydro-[1,2,4]triazolo[4,3-a]pyrimidin-5-yl]-phenyl}-propyl)-2-methyl-pyridinium formate;

1-(3-{5-cyano-2-[(R)-6-methoxycarbonyl-7-methyl-3-oxo-8-(3-trifluoromethyl-phenyl)-2,3,5,8-tetrahydro-[1,2,4]triazolo[4,3-a]pyrimidin-5-yl]-phenyl}-propyl)-3-hydroxymethyl-pyridinium formate;

3-chloro-1-(3-{5-cyano-2-[(R)-6-methoxycarbonyl-7-methyl-3-oxo-8-(3-trifluoromethyl-phenyl)-2,3,5,8-tetrahydro-[1,2,4]triazolo[4,3-a]pyrimidin-5-yl]-phenyl}-propyl)-pyridinium formate;

butyl-(3-{5-cyano-2-[(R)-6-methoxycarbonyl-7-methyl-3-oxo-8-(3-trifluoromethyl-phenyl)-2,3,5,8-tetrahydro-[1,2,4]triazolo[4,3-a]pyrimidin-5-yl]-phenyl}-ethyl)-dimethyl-ammonium formate;

(3-{5-cyano-2-[(R)-6-methoxycarbonyl-7-methyl-3-oxo-8-(3-trifluoromethyl-phenyl)-2,3,5,8-tetrahydro-[1,2,4]triazolo[4,3-a]pyrimidin-5-yl]-phenyl}-ethyl)-cyclohexyl-dimethyl-ammonium formate;

1-(3-{5-cyano-2-[(R)-6-methoxycarbonyl-7-methyl-3-oxo-8-(3-trifluoromethyl-phenyl)-2,3,5,8-tetrahydro-[1,2,4]triazolo[4,3-a]pyrimidin-5-yl]-phenyl}-ethyl)-1-methyl-pyrrolidinium formate;

1-(3-{5-cyano-2-[(R)-6-methoxycarbonyl-7-methyl-3-oxo-8-(3-trifluoromethyl-phenyl)-2,3,5,8-tetrahydro-[1,2,4]triazolo[4,3-a]pyrimidin-5-yl]-phenyl}-ethyl)-1-methyl-piperidinium formate;

1-(3-{5-cyano-2-[(R)-6-methoxycarbonyl-7-methyl-3-oxo-8-(3-trifluoromethyl-phenyl)-2,3,5,8-tetrahydro-[1,2,4]triazolo[4,3-a]pyrimidin-5-yl]-phenyl}-ethyl)-4-hydroxy-1-methyl-piperidinium formate;

(3-{5-cyano-2-[(R)-6-methoxycarbonyl-7-methyl-3-oxo-8-(3-trifluoromethyl-phenyl)-2,3,5,8-tetrahydro-[1,2,4]triazolo[4,3-a]pyrimidin-5-yl]-phenyl}-ethyl)-dimethyl-oxetan-3-yl-ammonium formate;

(3-{5-cyano-2-[(R)-6-methoxycarbonyl-7-methyl-3-oxo-8-(3-trifluoromethyl-phenyl)-2,3,5,8-tetrahydro-[1,2,4]triazolo[4,3-a]pyrimidin-5-yl]-phenyl}-ethyl)-dimethyl-(tetrahydro-pyran-4-yl)-ammonium formate;

4-(2-{5-cyano-2-[(R)-6-methoxycarbonyl-7-methyl-3-oxo-8-(3-trifluoromethyl-phenyl)-2,3,5,8-tetrahydro-[1,2,4]triazolo[4,3-a]pyrimidin-5-yl]-phenyl}-ethyl)-4-methyl-morpholin-4-ium formate;

(2-{5-cyano-2-[(R)-6-methoxycarbonyl-7-methyl-3-oxo-8-(3-trifluoromethyl-phenyl)-2,3,5,8-tetrahydro-[1,2,4]triazolo[4,3-a]pyrimidin-5-yl]-phenyl}-ethyl)-dimethylcarbamoylmethyl-dimethyl-ammonium formate;

(2-{5-cyano-2-[(R)-6-methoxycarbonyl-7-methyl-3-oxo-8-(3-trifluoromethyl-phenyl)-2,3,5,8-tetrahydro-[1,2,4]triazolo[4,3-a]pyrimidin-5-yl]-phenyl}-ethyl)-(3-methoxy-propyl)-dimethyl-ammonium formate;

(2-{5-cyano-2-[(R)-6-methoxycarbonyl-7-methyl-3-oxo-8-(3-trifluoromethyl-phenyl)-2,3,5,8-tetrahydro-[1,2,4]triazolo[4,3-a]pyrimidin-5-yl]-phenyl}-ethyl)-cyclobutylmethyl-dimethyl-ammonium formate;

(2-{5-cyano-2-[(R)-6-methoxycarbonyl-7-methyl-3-oxo-8-(3-trifluoromethyl-phenyl)-2,3,5,8-tetrahydro-[1,2,4]triazolo[4,3-a]pyrimidin-5-yl]-phenyl}-ethyl)-dimethyl-(tetrahydro-pyran-4-ylmethyl)-ammonium formate;

1-(2-{5-cyano-2-[(R)-6-methoxycarbonyl-7-methyl-3-oxo-8-(3-trifluoromethyl-phenyl)-2,3,5,8-tetrahydro-[1,2,4]triazolo[4,3-a]pyrimidin-5-yl]-phenyl}-ethyl)-1-(2-hydroxy-ethyl)-pyrrolidinium formate;

(2-{5-cyano-2-[(R)-6-methoxycarbonyl-7-methyl-3-oxo-8-(3-trifluoromethyl-phenyl)-2,3,5,8-tetrahydro-[1,2,4]triazolo[4,3-a]pyrimidin-5-yl]-phenyl}-ethyl)-[2-(2-hydroxy-ethoxy)-ethyl]-dimethyl-ammonium formate;

(2-{5-cyano-2-[(R)-6-methoxycarbonyl-7-methyl-3-oxo-8-(3-trifluoromethyl-phenyl)-2,3,5,8-tetrahydro-[1,2,4]triazolo[4,3-a]pyrimidin-5-yl]-phenyl}-ethyl)-bis-(2-hydroxy-ethyl)-methyl-ammonium formate;

(2-{5-cyano-2-[(R)-6-methoxycarbonyl-7-methyl-3-oxo-8-(3-trifluoromethyl-phenyl)-2,3,5,8-tetrahydro-[1,2,4]triazolo[4,3-a]pyrimidin-5-yl]-phenyl}-ethyl)-(2-hydroxy-ethyl)-dimethyl-ammonium formate;

(2-{5-cyano-2-[(R)-6-methoxycarbonyl-7-methyl-3-oxo-8-(3-trifluoromethyl-phenyl)-2,3,5,8-tetrahydro-[1,2,4]triazolo[4,3-a]pyrimidin-5-yl]-phenyl}-ethyl)-ethyl-dimethyl-ammonium formate;

benzyl-(2-{5-cyano-2-[(R)-6-methoxycarbonyl-7-methyl-3-oxo-8-(3-trifluoromethyl-phenyl)-2,3,5,8-tetrahydro-[1,2,4]triazolo[4,3-a]pyrimidin-5-yl]-phenyl}-ethyl)-dimethyl-ammonium formate;

(2-{5-cyano-2-[(R)-6-methoxycarbonyl-7-methyl-3-oxo-8-(3-trifluoromethyl-phenyl)-2,3,5,8-tetrahydro-[1,2,4]triazolo[4,3-a]pyrimidin-5-yl]-phenyl}-ethyl)-cyclohexylmethyl-dimethyl-ammonium formate;

(2-{5-cyano-2-[(R)-6-methoxycarbonyl-7-methyl-3-oxo-8-(3-trifluoromethyl-phenyl)-2,3,5,8-tetrahydro-[1,2,4]triazolo[4,3-a]pyrimidin-5-yl]-phenyl}-ethyl)-(3-hydroxy-propyl)-dimethyl-ammonium formate;

(2-{5-cyano-2-[(R)-6-methoxycarbonyl-7-methyl-3-oxo-8-(3-trifluoromethyl-phenyl)-2,3,5,8-tetrahydro-[1,2,4]triazolo[4,3-a]pyrimidin-5-yl]-phenyl}-ethyl)-diethyl-methyl-ammonium formate;

(2-{5-cyano-2-[(R)-6-methoxycarbonyl-7-methyl-3-oxo-8-(3-trifluoromethyl-phenyl)-2,3,5,8-tetrahydro-[1,2,4]triazolo[4,3-a]pyrimidin-5-yl]-phenyl}-ethyl)-cyclopropylmethyl-dimethyl-ammonium formate;

1-(2-{5-cyano-2-[(R)-6-methoxycarbonyl-7-methyl-3-oxo-8-(3-trifluoromethyl-phenyl)-2,3,5,8-tetrahydro-[1,2,4]triazolo[4,3-a]pyrimidin-5-yl]-phenyl}-ethyl)-1-azonia-bicyclo[2.2.2]octane formate;

1-(2-{5-cyano-2-[(R)-6-methoxycarbonyl-7-methyl-3-oxo-8-(3-trifluoromethyl-phenyl)-2,3,5,8-tetrahydro-[1,2,4]triazolo[4,3-a]pyrimidin-5-yl]-phenyl}-ethyl)-3-hydroxymethyl-pyridinium formate;

1-(2-{5-cyano-2-[(R)-6-methoxycarbonyl-7-methyl-3-oxo-8-(3-trifluoromethyl-phenyl)-2,3,5,8-tetrahydro-[1,2,4]triazolo[4,3-a]pyrimidin-5-yl]-phenyl}-ethyl)-3-methyl-pyridinium formate;

{5-cyano-2-[(R)-6-methoxycarbonyl-7-methyl-3-oxo-8-(3-trifluoromethyl-phenyl)-2,3,5,8-tetrahydro-[1,2,4]triazolo[4,3-a]pyrimidin-5-yl]-benzyl}-cyclobutylmethyl-dimethyl-ammonium formate;

{5-cyano-2-[(R)-6-methoxycarbonyl-7-methyl-3-oxo-8-(3-trifluoromethyl-phenyl)-2,3,5,8-tetrahydro-[1,2,4]triazolo[4,3-a]pyrimidin-5-yl]-benzyl}-dimethyl-(tetrahydro-pyran-4-ylmethyl)-ammonium formate;

{{5-cyano-2-[(R)-6-methoxycarbonyl-7-methyl-3-oxo-8-(3-trifluoromethyl-phenyl)-2,3,5,8-tetrahydro-[1,2,4]triazolo[4,3-a]pyrimidin-5-yl]-benzyl}-(2-methoxy-ethyl)-dimethyl-ammonium formate;

{5-cyano-2-[(R)-6-methoxycarbonyl-7-methyl-3-oxo-8-(3-trifluoromethyl-phenyl)-2,3,5,8-tetrahydro-[1,2,4]triazolo[4,3-a]pyrimidin-5-yl]-benzyl}-cyclopropylmethyl-dimethyl-ammonium formate;

3-chloro-1-{5-cyano-2-[(R)-6-methoxycarbonyl-7-methyl-3-oxo-8-(3-trifluoromethyl-phenyl)-2,3,5,8-tetrahydro-[1,2,4]triazolo[4,3-a]pyrimidin-5-yl]-benzyl}-pyridinium formate;

{5-cyano-2-[(R)-6-methoxycarbonyl-7-methyl-3-oxo-8-(3-trifluoromethyl-phenyl)-2,3,5,8-tetrahydro-[1,2,4]triazolo[4,3-a]pyrimidin-5-yl]-benzyl}-(2-hydroxy-ethyl)-dimethyl-ammonium formate;

1-{5-cyano-2-[(R)-6-methoxycarbonyl-7-methyl-3-oxo-8-(3-trifluoromethyl-phenyl)-2,3,5,8-tetrahydro-[1,2,4]triazolo[4,3-a]pyrimidin-5-yl]-benzyl}-4-methoxy-pyridinium formate;

1-{5-cyano-2-[(R)-6-methoxycarbonyl-7-methyl-3-oxo-8-(3-trifluoromethyl-phenyl)-2,3,5,8-tetrahydro-[1,2,4]triazolo[4,3-a]pyrimidin-5-yl]-benzyl}-3-hydroxymethyl-pyridinium formate;

{1-{5-cyano-2-[(R)-6-methoxycarbonyl-7-methyl-3-oxo-8-(3-trifluoromethyl-phenyl)-2,3,5,8-tetrahydro-[1,2,4]triazolo[4,3-a]pyrimidin-5-yl]-benzyl}-4-hydroxymethyl-1-methyl-piperidinium formate;

{5-cyano-2-[(R)-6-methoxycarbonyl-7-methyl-3-oxo-8-(3-trifluoromethyl-phenyl)-2,3,5,8-tetrahydro-[1,2,4]triazolo[4,3-a]pyrimidin-5-yl]-benzyl}-ethoxycarbonylmethyl-dimethyl-ammonium formate;

{5-cyano-2-[(R)-6-methoxycarbonyl-7-methyl-3-oxo-8-(3-trifluoromethyl-phenyl)-2,3,5,8-tetrahydro-[1,2,4]triazolo[4,3-a]pyrimidin-5-yl]-benzyl}-(1,1-dioxo-hexahydro-1lambda*6*-thiopyran-4-ylmethyl)-dimethyl-ammonium formate;

1-{5-cyano-2-[(R)-6-methoxycarbonyl-7-methyl-3-oxo-8-(3-trifluoromethyl-phenyl)-2,3,5,8-tetrahydro-[1,2,4]triazolo[4,3-a]pyrimidin-5-yl]-benzyl}-3,4-dihydroxy-1-methyl-pyrrolidinium formate;

4-{5-cyano-2-[(R)-6-methoxycarbonyl-7-methyl-3-oxo-8-(3-trifluoromethyl-phenyl)-2,3,5,8-tetrahydro-[1,2,4]triazolo[4,3-a]pyrimidin-5-yl]-benzyl}-4-ethyl-morpholin-4-ium formate;

1-{5-cyano-2-[(R)-6-methoxycarbonyl-7-methyl-3-oxo-8-(3-trifluoromethyl-phenyl)-2,3,5,8-tetrahydro-[1,2,4]triazolo[4,3-a]pyrimidin-5-yl]-benzyl}-4-dimethylcarbamoyl-1-methyl-piperazin-1-ium formate;

{5-cyano-2-[(R)-6-methoxycarbonyl-7-methyl-3-oxo-8-(3-trifluoromethyl-phenyl)-2,3,5,8-tetrahydro-[1,2,4]triazolo[4,3-a]pyrimidin-5-yl]-benzyl}-dimethylcarbamoylmethyl-dimethyl-ammonium formate;

{5-cyano-2-[(R)-6-methoxycarbonyl-7-methyl-3-oxo-8-(3-trifluoromethyl-phenyl)-2,3,5,8-tetrahydro-[1,2,4]triazolo[4,3-a]pyrimidin-5-yl]-benzyl}-(1-methanesulfonyl-piperidin-4-yl)-dimethyl-ammonium formate;

{5-cyano-2-[(R)-6-methoxycarbonyl-7-methyl-3-oxo-8-(3-trifluoromethyl-phenyl)-2,3,5,8-tetrahydro-[1,2,4]triazolo[4,3-a]pyrimidin-5-yl]-benzyl}-dimethyl-oxetan-3-ylmethyl-ammonium formate;

{5-cyano-2-[(R)-6-methoxycarbonyl-7-methyl-3-oxo-8-(3-trifluoromethyl-phenyl)-2,3,5,8-tetrahydro-[1,2,4]triazolo[4,3-a]pyrimidin-5-yl]-benzyl}-dimethyl-(3-methylcarbamoyl-propyl)-ammonium formate;

{5-cyano-2-[(R)-6-methoxycarbonyl-7-methyl-3-oxo-8-(3-trifluoromethyl-phenyl)-2,3,5,8-tetrahydro-[1,2,4]triazolo[4,3-a]pyrimidin-5-yl]-benzyl}-(3-dimethylsulfamoyl-propyl)-dimethyl-ammonium formate;

1-{5-cyano-2-[(R)-6-methoxycarbonyl-7-methyl-3-oxo-8-(3-trifluoromethyl-phenyl)-2,3,5,8-tetrahydro-[1,2,4]triazolo[4,3-a]pyrimidin-5-yl]-benzyl}-4-methanesulfonyl-1-methyl-piperazin-1-ium formate;

{5-cyano-2-[(R)-6-methoxycarbonyl-7-methyl-3-oxo-8-(3-trifluoromethyl-phenyl)-2,3,5,8-tetrahydro-[1,2,4]triazolo[4,3-a]pyrimidin-5-yl]-benzyl}-bis-(2-hydroxy-ethyl)-methyl-ammonium formate;

1-{5-cyano-2-[(R)-6-methoxycarbonyl-7-methyl-3-oxo-8-(3-trifluoromethyl-phenyl)-2,3,5,8-tetrahydro-[1,2,4]triazolo[4,3-a]pyrimidin-5-yl]-benzyl}-4,4-difluoro-1-methyl-piperidinium formate;

4-{5-cyano-2-[(R)-6-methoxycarbonyl-7-methyl-3-oxo-8-(3-trifluoromethyl-phenyl)-2,3,5,8-tetrahydro-[1,2,4]triazolo[4,3-a]pyrimidin-5-yl]-benzyl}-4-methyl-[1,4]oxazepan-4-ium formate;

{5-cyano-2-[(R)-6-methoxycarbonyl-7-methyl-3-oxo-8-(3-trifluoromethyl-phenyl)-2,3,5,8-tetrahydro-[1,2,4]triazolo[4,3-a]pyrimidin-5-yl]-benzyl}-(3-methoxy-propyl)-dimethyl-ammonium formate;

{5-cyano-2-[(R)-6-methoxycarbonyl-7-methyl-3-oxo-8-(3-trifluoromethyl-phenyl)-2,3,5,8-tetrahydro-[1,2,4]triazolo[4,3-a]pyrimidin-5-yl]-benzyl}-(3-methanesulfonyl-propyl)-dimethyl-ammonium formate;

{5-cyano-2-[(R)-6-methoxycarbonyl-7-methyl-3-oxo-8-(3-trifluoromethyl-phenyl)-2,3,5,8-tetrahydro-[1,2,4]triazolo[4,3-a]pyrimidin-5-yl]-benzyl}-dimethyl-(1-methyl-piperidin-4-yl)-ammonium formate;

{5-cyano-2-[(R)-6-methoxycarbonyl-7-methyl-3-oxo-8-(3-trifluoromethyl-phenyl)-2,3,5,8-tetrahydro-[1,2,4]triazolo[4,3-a]pyrimidin-5-yl]-benzyl}-dimethyl-piperidin-4-yl-ammonium formate;

{5-cyano-2-[(R)-6-methoxycarbonyl-7-methyl-3-oxo-8-(3-trifluoromethyl-phenyl)-2,3,5,8-tetrahydro-[1,2,4]triazolo[4,3-a]pyrimidin-5-yl]-benzyl}-dimethyl-(tetrahydro-pyran-4-yl)-ammonium formate;

1-{5-cyano-2-[(R)-6-methoxycarbonyl-7-methyl-3-oxo-8-(3-trifluoromethyl-phenyl)-2,3,5,8-tetrahydro-[1,2,4]triazolo[4,3-a]pyrimidin-5-yl]-benzyl}-pyridinium bromide;

1-{5-cyano-2-[(R)-6-methoxycarbonyl-7-methyl-3-oxo-8-(3-trifluoromethyl-phenyl)-2,3,5,8-tetrahydro-[1,2,4]triazolo[4,3-a]pyrimidin-5-yl]-benzyl}-pyridinium benzenesulphonate;

1-{5-cyano-2-[(R)-6-methoxycarbonyl-7-methyl-3-oxo-8-(3-trifluoromethyl-phenyl)-2,3,5,8-tetrahydro-[1,2,4]triazolo[4,3-a]pyrimidin-5-yl]-benzyl}-pyridinium tosylate;

benzyl-{5-cyano-2-[(R)-6-methoxycarbonyl-7-methyl-3-oxo-8-(3-trifluoromethyl-phenyl)-2,3,5,8-tetrahydro-[1,2,4]triazolo[4,3-a]pyrimidin-5-yl]-benzyl}-dimethyl-ammonium bromide;

benzyl-{5-cyano-2-[(R)-6-methoxycarbonyl-7-methyl-3-oxo-8-(3-trifluoromethyl-phenyl)-2,3,5,8-tetrahydro-[1,2,4]triazolo[4,3-a]pyrimidin-5-yl]-benzyl}-dimethyl-ammonium benzenesulfonate;

4-{5-cyano-2-[(R)-6-methoxycarbonyl-7-methyl-3-oxo-8-(3-trifluoromethyl-phenyl)-2,3,5,8-tetrahydro-[1,2,4]triazolo[4,3-a]pyrimidin-5-yl]-benzyl}-4-methyl-morpholin-4-ium bromide;

4-{5-cyano-2-[(R)-6-methoxycarbonyl-7-methyl-3-oxo-8-(3-trifluoromethyl-phenyl)-2,3,5,8-tetrahydro-[1,2,4]triazolo[4,3-a]pyrimidin-5-yl]-benzyl}-4-methyl-morpholin-4-ium bromide;

4-{5-cyano-2-[(R)-6-methoxycarbonyl-7-methyl-3-oxo-8-(3-trifluoromethyl-phenyl)-2,3,5,8-tetrahydro-[1,2,4]triazolo[4,3-a]pyrimidin-5-yl]-benzyl}-4-methyl-morpholin-4-ium bromide;

{5-cyano-2-[(R)-6-methoxycarbonyl-7-methyl-3-oxo-8-(3-trifluoromethyl-phenyl)-2,3,5,8-tetrahydro-[1,2,4]triazolo[4,3-a]pyrimidin-5-yl]-benzyl}-trimethyl-ammonium benzenesulfonate;

1-(2-{5-cyano-2-[(R)-6-methoxycarbonyl-7-methyl-3-oxo-8-(3-trifluoromethyl-phenyl)-2,3,5,8-tetrahydro-[1,2,4]triazolo[4,3-a]pyrimidin-5-yl]-phenyl}-ethyl)-pyridinium 2-hydroxy-ethanesulfonate;

1-(2-{5-cyano-2-[(R)-6-methoxycarbonyl-7-methyl-3-oxo-8-(3-trifluoromethyl-phenyl)-2,3,5,8-tetrahydro-[1,2,4]triazolo[4,3-a]pyrimidin-5-yl]-phenyl}-ethyl)-pyridinium methanesulfonate;

1-{5-cyano-2-[(R)-6-methoxycarbonyl-7-methyl-3-oxo-8-(3-trifluoromethyl-phenyl)-2,3,5,8-tetrahydro-[1,2,4]triazolo[4,3-a]pyrimidin-5-yl]-benzyl}-pyridinium chloride;

{5-cyano-2-[(R)-6-methoxycarbonyl-7-methyl-3-oxo-8-(3-trifluoromethyl-phenyl)-2,3,5,8-tetrahydro-[1,2,4]triazolo[4,3-a]pyrimidin-5-yl]-benzyl}-bis-(2-hydroxy-ethyl)-methyl-ammonium benzenesulfonate;

1-(2-{5-cyano-2-[(R)-6-methoxycarbonyl-7-methyl-3-oxo-8-(3-trifluoromethyl-phenyl)-2,3,5,8-tetrahydro-[1,2,4]triazolo[4,3-a]pyrimidin-5-yl]-phenyl}-ethyl)-pyridinium benzenesulfonate;

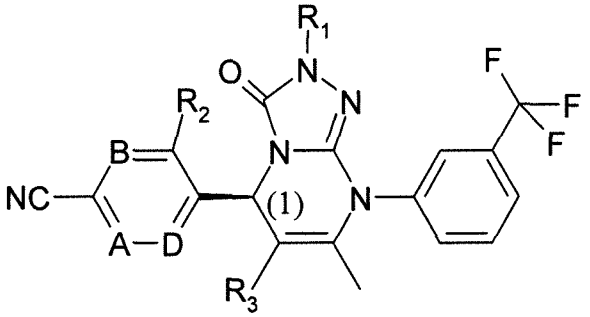
(2-{5-cyano-2-[(R)-6-methoxycarbonyl-7-methyl-3-oxo-8-(3-trifluoromethyl-phenyl)-2,3,5,8-tetrahydro-[1,2,4]triazolo[4,3-a]pyrimidin-5-yl]-phenyl}-ethyl)-trimethyl-ammonium2-hydroxy-ethanesulfonate;

(2-{5-cyano-2-[(R)-6-methoxycarbonyl-7-methyl-3-oxo-8-(3-trifluoromethyl-phenyl)-2,3,5,8-tetrahydro-[1,2,4]triazolo[4,3-a]pyrimidin-5-yl]-phenyl}-ethyl)-trimethyl-ammonium methanesulfonate; and

(2-{5-cyano-2-[(R)-6-methoxycarbonyl-7-methyl-3-oxo-8-(3-trifluoromethyl-phenyl)-2,3,5,8-tetrahydro-[1,2,4]triazolo[4,3-a]pyrimidin-5-yl]-phenyl}-ethyl)-trimethyl-ammonium chloride;

or a pharmaceutically acceptable salt of said compound.

6. The compound or pharmaceutically acceptable salt according to claim 1, which has the absolute configuration at carbon (1) shown in formula (I)':



(I)'

7. The compound or pharmaceutically acceptable salt according to claim 1, which is in the form of a pharmaceutically acceptable salt.

8. A pharmaceutical composition, comprising a compound or pharmaceutically

acceptable salt according to claim 1 and at least one pharmaceutically acceptable carrier or excipient.

9. The pharmaceutical composition according to claim 8, which is in a form suitable for oral administration or administration by the pulmonary route.

10. The pharmaceutical composition, comprising a compound or pharmaceutically acceptable salt according to claim 3 and at least one pharmaceutically acceptable carrier or excipient.

11. The pharmaceutical composition, comprising a compound or pharmaceutically acceptable salt according to claim 5 and at least one pharmaceutically acceptable carrier or excipient.

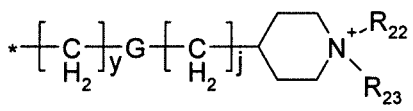
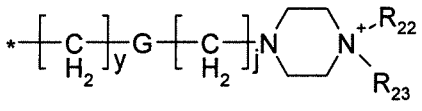
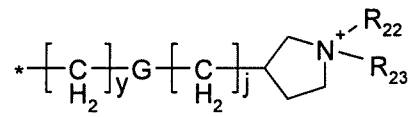
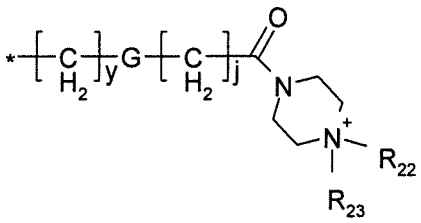
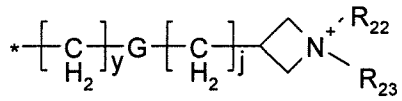
12. The compound or pharmaceutically acceptable salt according to claim 1, wherein R_2 is $NR_{18}R_{19}(C_1\text{-}C_6)$alkyl.

13. The compound or pharmaceutically acceptable salt according to claim 1, wherein R_2 is —$CONR_{21}R_{20}$.

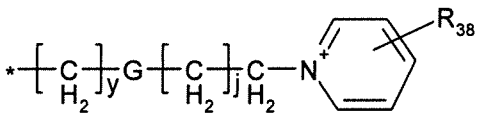
14. The compound or pharmaceutically acceptable salt according to claim 1, wherein R_2 is $C_2\text{-}C_6$-alkenyl which is substituted by —OH or —$NR_{18}R_{19}$.

15. The compound or pharmaceutically acceptable salt according to claim 1, wherein R_2 is $C_2\text{-}C_6$-alkynyl which is substituted by —OH or —$NR_{18}R_{19}$.

16. The compound or pharmaceutically acceptable salt according to claim 1, wherein R_2 is a group:

or R_2 is a group:



17. The compound according to any one of claims 1-7 and 12-16 for use as a medicament.

18. The compound according to any one of claims 1-7 and 12-16 for use in treating a disease or condition in which HNE is implicated.

19. The compound for use according to claim 18, wherein the disease or condition is chronic obstructive pulmonary disease, bronchiectasis, chronic bronchitis, lung fibrosis, pneumonia, acute respiratory distress syndrome, pulmonary emphysema, smoking-induced emphysema, or cystic fibrosis.

20. The compound for use according to claim 18, wherein the disease or condition is asthma, rhinitis, psoriasis, atopic dermatitis, non-atopic dermatitis, Crohn's disease, ulcerative colitis, or irritable bowel disease.

21. Use of the compound according to any one of claims 1-7 and 12-16 in the manufacture of a medicament for treating a disease or condition in which HNE is implicated.

22. The use according to claim 21, wherein the disease or condition is chronic obstructive pulmonary disease, bronchiectasis, chronic bronchitis, lung fibrosis, pneumonia, acute respiratory distress syndrome, pulmonary emphysema, smoking-induced emphysema, or cystic fibrosis.

23. The use according to claim 21, wherein the disease or condition is asthma, rhinitis, psoriasis, atopic dermatitis, non-atopic dermatitis, Crohn's disease, ulcerative colitis, or irritable bowel disease.