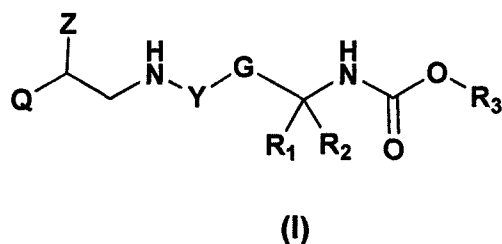


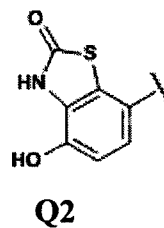
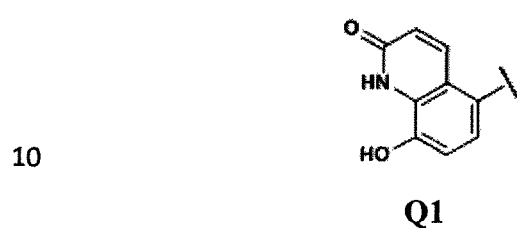
CLAIMS

1. A compound represented by formula (I)



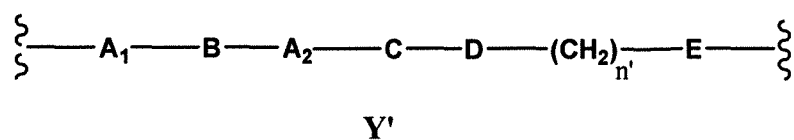
5 wherein

Q is a group of formula Q1 or Q2

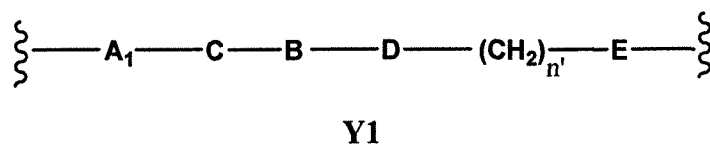


Z is H or OH;

Y is Y' or Y1 which are divalent groups of formula:



or



wherein

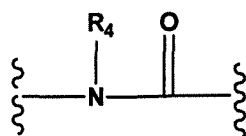
20 A1 is butylene;

A2 is absent or (C₁-C₆)alkylene;

B is selected from the group consisting of pyrazolediyl and thiophenediyl, each of which is optionally substituted by one or more methyl groups;

C is -OC(O)- or is a group C1

25



C1

wherein R_4 is H;

D is absent;

n' is 1;

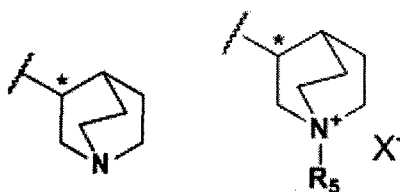
5 **E** is absent or is $-O-$;

G is phenylene;

R_1 is H;

R_2 is H or aryl;

R_3 is a group of formula **J1** or **J2**

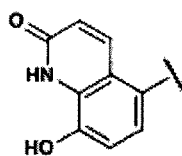
**J1****J2**

wherein R_5 is a group of formula **K**

**K**

wherein p' is 0 or 1, **P** is absent or is CO, q is absent or is 1 and **W** is heteroaryl,
15 or a pharmaceutically acceptable salt thereof.

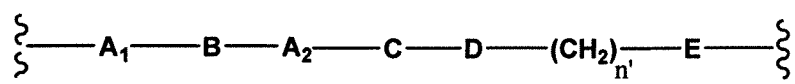
2. A compound or pharmaceutically acceptable salt according to claim 1, wherein
Q is **Q1**

**Q1**

20 **Z** is $-OH$;

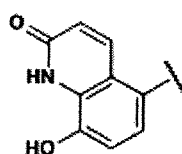
Y is **Y'** which is a divalent group of formula:

Y'



3. A compound or pharmaceutically acceptable salt according to claim 1, wherein **A2** is absent or is selected from the group consisting of methylene, ethylene, and propylene, and **B** is thiophenediyl.

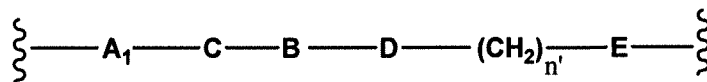
4. A compound or pharmaceutically acceptable salt according to claim 1, wherein **Q** is **Q1**



Q1

Z is -OH;

Y is **Y1** which is a divalent group of formula



Y1.

5. A compound which is selected from the group consisting of:
- 2-(4-(((R)-2-hydroxy-2-(8-hydroxy-2-oxo-1,2-dihydroquinolin-5-yl)ethyl)amino)-methyl)-2-methylphenoxy)ethyl 4-((3-((S)-phenyl(((R)-quinuclidin-3-yloxy)carbonyl)-amino)methyl)phenoxy)methyl)benzoate;
- 2-(4-(((R)-2-hydroxy-2-(8-hydroxy-2-oxo-1,2-dihydroquinolin-5-yl)ethyl)amino)-methyl)phenoxy)ethyl 4-((3-((S)-phenyl(((R)-quinuclidin-3-yloxy)carbonyl)amino)-methyl)phenoxy)methyl)benzoate;
- 2-(2-chloro-4-(((R)-2-hydroxy-2-(8-hydroxy-2-oxo-1,2-dihydroquinolin-5-yl)ethyl)-amino)methyl)phenoxy)ethyl 4-((3-((S)-phenyl(((R)-quinuclidin-3-yloxy)carbonyl)amino)-methyl)phenoxy)methyl)benzoate;
- 2-(4-(((R)-2-hydroxy-2-(8-hydroxy-2-oxo-1,2-dihydroquinolin-5-yl)ethyl)amino)-methyl)-2-methoxyphenoxy)ethyl 4-((3-((S)-phenyl(((R)-quinuclidin-3-yloxy)carbonyl)-amino)methyl)phenoxy)methyl)benzoate;

- 2-(2-bromo-4-(((R)-2-hydroxy-2-(8-hydroxy-2-oxo-1,2-dihydroquinolin-5-yl)ethyl)-amino)methyl)phenoxy)ethyl 4-((3-((S)-phenyl(((R)-quinuclidin-3-yloxy)carbonyl)amino)-methyl)phenoxy)methyl)benzoate;
- 5 2-(2-chloro-3-(((R)-2-hydroxy-2-(8-hydroxy-2-oxo-1,2-dihydroquinolin-5-yl)ethyl)-amino)methyl)phenoxy)ethyl 4-((3-((S)-phenyl(((R)-quinuclidin-3-yloxy)carbonyl)amino)-methyl)phenoxy)methyl)benzoate;
- 2-((4-(((R)-2-hydroxy-2-(8-hydroxy-2-oxo-1,2-dihydroquinolin-5-yl)ethyl)amino)-methyl)4aphthalene-1-yl)oxy)ethyl 4-((3-((S)-phenyl(((R)-quinuclidin-3-yloxy)carbonyl)-amino)methyl)phenoxy)methyl)benzoate;
- 10 2-(3-chloro-4-(((R)-2-hydroxy-2-(8-hydroxy-2-oxo-1,2-dihydroquinolin-5-yl)ethyl)-amino)methyl)phenoxy)ethyl 4-((3-((S)-phenyl(((R)-quinuclidin-3-yloxy)carbonyl)amino)-methyl)phenoxy)-methyl)benzoate;
- 2-(3-(((R)-2-hydroxy-2-(8-hydroxy-2-oxo-1,2-dihydroquinolin-5-yl)ethyl)amino)-methyl)phenoxy)ethyl 4-((3-((S)-phenyl(((R)-quinuclidin-3-yloxy)carbonyl)amino)-methyl)phenoxy)methyl)benzoate;
- 15 2-(4-(((R)-2-hydroxy-2-(8-hydroxy-2-oxo-1,2-dihydroquinolin-5-yl)ethyl)amino)-methyl)-2,6-dimethylphenoxy)ethyl 4-((3-((S)-phenyl(((R)-quinuclidin-3-yloxy)carbonyl)-amino)methyl)phenoxy)methyl)benzoate;
- 2-(2-chloro-4-(((R)-2-hydroxy-2-(8-hydroxy-2-oxo-1,2-dihydroquinolin-5-yl)ethyl)-amino)methyl)-6-methoxyphenoxy)ethyl 4-((3-((S)-phenyl(((R)-quinuclidin-3-yloxy)-carbonyl)amino)methyl)phenoxy)methyl)benzoate;
- 20 2-(4-(((R)-2-hydroxy-2-(8-hydroxy-2-oxo-1,2-dihydroquinolin-5-yl)ethyl)amino)-methyl)-3-methoxyphenoxy)ethyl 4-((3-((S)-phenyl(((R)-quinuclidin-3-yloxy)carbonyl)-amino)methyl)phenoxy)methyl)benzoate;
- 25 2-(2-bromo-4-(((R)-2-hydroxy-2-(8-hydroxy-2-oxo-1,2-dihydroquinolin-5-yl)ethyl)-amino)methyl)-5-methoxyphenoxy)ethyl 4-((3-((S)-phenyl(((R)-quinuclidin-3-yloxy)-carbonyl)amino)methyl)phenoxy)methyl)benzoate;
- 2-(2,6-dichloro-4-(((R)-2-hydroxy-2-(8-hydroxy-2-oxo-1,2-dihydroquinolin-5-yl)ethyl)amino)methyl)phenoxy)ethyl 4-((3-((S)-phenyl(((R)-quinuclidin-3-yloxy)carbonyl)-amino)methyl)-phenoxy)methyl)benzoate;
- 30

- 2-(2-fluoro-4-(((R)-2-hydroxy-2-(8-hydroxy-2-oxo-1,2-dihydroquinolin-5-yl)ethyl)-amino)methyl)phenoxy)ethyl 4-((3-((S)-phenyl(((R)-quinuclidin-3-yloxy)carbonyl)amino)-methyl)phenoxy)methyl)benzoate;
- 5 2-(4-(((R)-2-hydroxy-2-(8-hydroxy-2-oxo-1,2-dihydroquinolin-5-yl)ethyl)amino)-methyl)-2,6-dimethoxyphenoxy)ethyl 4-((3-((S)-phenyl(((R)-quinuclidin-3-yloxy)carbonyl)-amino)methyl)phenoxy)-methyl)benzoate;
- 2-(2-chloro-4-(((R)-2-hydroxy-2-(8-hydroxy-2-oxo-1,2-dihydroquinolin-5-yl)ethyl)-amino)methyl)-5-methoxyphenoxy)ethyl 4-((3-((S)-phenyl(((R)-quinuclidin-3-yloxy)-carbonyl)amino)methyl)phenoxy)methyl)benzoate;
- 10 4-(2-(((R)-2-hydroxy-2-(8-hydroxy-2-oxo-1,2-dihydroquinolin-5-yl)ethyl)amino)-ethyl)benzyl 3-((3-((S)-phenyl(((R)-quinuclidin-3-yloxy)carbonyl)amino)methyl)-phenoxy)methyl)benzoate;
- 2-fluoro-4-(2-(((R)-2-hydroxy-2-(8-hydroxy-2-oxo-1,2-dihydroquinolin-5-yl)ethyl)-amino)ethyl)benzyl 4-((3-(phenyl(((R)-quinuclidin-3-yloxy)carbonyl)amino)methyl)-phenoxy)methyl)benzoate;
- 15 4-(2-(((R)-2-hydroxy-2-(8-hydroxy-2-oxo-1,2-dihydroquinolin-5-yl)ethyl)amino)-ethyl)-3-methoxybenzyl 4-((3-((S)-phenyl(((R)-quinuclidin-3-yloxy)carbonyl)amino)-methyl)phenoxy)methyl)benzoate;
- 3-(2-(((R)-2-hydroxy-2-(8-hydroxy-2-oxo-1,2-dihydroquinolin-5-yl)ethyl)amino)-ethyl)benzyl 3-((3-((S)-phenyl(((R)-quinuclidin-3-yloxy)carbonyl)amino)methyl)-phenoxy)methyl)benzoate;
- 20 3-(((R)-2-hydroxy-2-(8-hydroxy-2-oxo-1,2-dihydroquinolin-5-yl)ethyl)amino)-methyl)benzyl 4-((3-((S)-phenyl(((R)-quinuclidin-3-yloxy)carbonyl)amino)methyl)-phenoxy)methyl)benzoate;
- 25 (6-(((R)-2-hydroxy-2-(8-hydroxy-2-oxo-1,2-dihydroquinolin-5-yl)ethyl)amino)-methyl)pyridin-3-yl)methyl 4-((3-(S)-phenyl(((R)-quinuclidin-3-yloxy)carbonyl)amino)-methyl)phenoxy)methyl)benzoate;
- (5-(((R)-2-hydroxy-2-(8-hydroxy-2-oxo-1,2-dihydroquinolin-5-yl)ethyl)amino)-methyl)furan-2-yl)methyl 4-((3-((S)-phenyl(((R)-quinuclidin-3-yloxy)carbonyl)amino)-methyl)phenoxy)methyl)benzoate;
- 30

- 2-fluoro-4-(((R)-2-hydroxy-2-(8-hydroxy-2-oxo-1,2-dihydroquinolin-5-yl)ethyl)-amino)methyl)benzyl 4-((3-((S)-phenyl(((R)-quinuclidin-3-yloxy)carbonyl)amino)methyl)-phenoxy)methyl)benzoate;
- 5-(((R)-2-hydroxy-2-(8-hydroxy-2-oxo-1,2-dihydroquinolin-5-yl)ethyl)amino)-methyl)-2-methoxybenzyl 4-((3-((S)-phenyl(((R)-quinuclidin-3-yloxy)carbonyl)amino)-methyl)phenoxy)methyl)benzoate;
- (4-(((R)-2-hydroxy-2-(8-hydroxy-2-oxo-1,2-dihydroquinolin-5-yl)ethyl)amino)-methyl)furan-2-yl)methyl 4-((3-((S)-phenyl(((R)-quinuclidin-3-yloxy)carbonyl)amino)-methyl)phenoxy)methyl)benzoate;
- 10 (5-(((R)-2-hydroxy-2-(8-hydroxy-2-oxo-1,2-dihydroquinolin-5-yl)ethyl)amino)-methyl)thiophen-2-yl)methyl 4-((3-((S)-phenyl(((R)-quinuclidin-3-yloxy)carbonyl)amino)-methyl)phenoxy)methyl)benzoate;
- (5-(((R)-2-hydroxy-2-(8-hydroxy-2-oxo-1,2-dihydroquinolin-5-yl)ethyl)amino)-methyl)thiophen-3-yl)methyl 4-((3-((S)-phenyl(((R)-quinuclidin-3-yloxy)carbonyl)amino)-methyl)phenoxy)methyl)benzoate;
- 15 3-(((R)-2-hydroxy-2-(8-hydroxy-2-oxo-1,2-dihydroquinolin-5-yl)ethyl)amino)-methyl)benzyl 3-((3-((S)-phenyl(((R)-quinuclidin-3-yloxy)carbonyl)amino)methyl)-phenoxy)methyl)benzoate;
- 4-(((R)-2-hydroxy-2-(8-hydroxy-2-oxo-1,2-dihydroquinolin-5-yl)ethyl)amino)-methyl)-3-methoxybenzyl 4-((3-((S)-phenyl(((R)-quinuclidin-3-yloxy)carbonyl)amino)-methyl)phenoxy)methyl)benzoate;
- 20 (5-(((R)-2-hydroxy-2-(8-hydroxy-2-oxo-1,2-dihydroquinolin-5-yl)ethyl)amino)-methyl)thiazol-2-yl)methyl 4-((3-((S)-phenyl(((R)-quinuclidin-3-yloxy)carbonyl)amino)-methyl)phenoxy)methyl)benzoate;
- 25 (5-(((R)-2-hydroxy-2-(8-hydroxy-2-oxo-1,2-dihydroquinolin-5-yl)ethyl)amino)-methyl)isoxazol-3-yl)methyl 4((3((S)-phenyl(((R)-quinuclidin-3-yloxy)carbonyl)amino)-methyl)phenoxy)methyl)benzoate;
- (5-(((R)-2-hydroxy-2-(8-hydroxy-2-oxo-1,2-dihydroquinolin-5-yl)ethyl)amino)-methyl)-1-methyl-1H-pyrazol-3-yl)methyl 4-((3-((S)-phenyl(((R)-quinuclidin-3-yloxy)-carbonyl)amino)methyl)phenoxy)-methyl)benzoate;
- 30

- 3-(4-(((R)-2-hydroxy-2-(8-hydroxy-2-oxo-1,2-dihydroquinolin-5-yl)ethyl)amino)-methyl)phenyl)propyl 4-((3-((S)-phenyl(((R)-quinuclidin-3-yloxy)carbonyl)amino)methyl)-phenoxy)methyl)benzoate;
- 4-(((R)-2-hydroxy-2-(8-hydroxy-2-oxo-1,2-dihydroquinolin-5-yl)ethyl)amino)-methyl)phenethyl 4-((3-((S)-phenyl(((R)-quinuclidin-3-yloxy)carbonyl)amino)methyl)-phenoxy)methyl)benzoate;
- (1-(3-(((R)-2-hydroxy-2-(8-hydroxy-2-oxo-1,2-dihydroquinolin-5-yl)ethyl)amino)-propyl)-1H-pyrazol-4-yl)methyl 4-((3-((S)-phenyl(((R)-quinuclidin-3-yloxy)carbonyl)-amino)methyl)phenoxy)methyl)benzoate;
- 2-(4-(((R)-2-hydroxy-2-(8-hydroxy-2-oxo-1,2-dihydroquinolin-5-yl)ethyl)amino)-methyl)-1H-pyrazol-1-yl)ethyl 4-((3-((S)-phenyl(((R)-quinuclidin-3-yloxy)carbonyl)amino)-methyl)phenoxy)methyl)benzoate;
- 4-(((R)-2-hydroxy-2-(8-hydroxy-2-oxo-1,2-dihydroquinolin-5-yl)ethyl)amino)butyl 1-methyl-5-((3-((S)-phenyl(((R)-quinuclidin-3-yloxy)carbonyl)amino)methyl)phenoxy)-methyl)-1H-pyrazole-3-carboxylate;
- 4-(((R)-2-hydroxy-2-(8-hydroxy-2-oxo-1,2-dihydroquinolin-5-yl)ethyl)amino)butyl 4-((3-((S)-phenyl(((R)-quinuclidin-3-yloxy)carbonyl)amino)methyl)phenoxy)methyl)-thiophene-2-carboxylate;
- 4-(((R)-2-hydroxy-2-(8-hydroxy-2-oxo-1,2-dihydroquinolin-5-yl)ethyl)amino)butyl 5-((3-((S)-phenyl(((R)-quinuclidin-3-yloxy)carbonyl)amino)methyl)phenoxy)methyl)-nicotinate;
- (R)-quinuclidin-3-yl((S)-(3-((3-((4-(((R)-2-hydroxy-2-(8-hydroxy-2-oxo-1,2-dihydroquinolin-5-yl)ethyl)amino)butyl)carbamoyl)-1-methyl-1H-pyrazol-5-yl)methoxy)-phenyl)(phenyl)methyl)carbamate;
- (R)-quinuclidin-3-yl((S)-(3-((3-((3-((4-(((R)-2-hydroxy-2-(8-hydroxy-2-oxo-1,2-dihydroquinolin-5-yl)ethyl)amino)methyl)benzyl)carbamoyl)-1-methyl-1H-pyrazol-5-yl)methoxy)phenyl)(phenyl)methyl)carbamate;
- (R)-quinuclidin-3-yl((S)-(3-((3-((4-(((R)-2-hydroxy-2-(8-hydroxy-2-oxo-1,2-dihydroquinolin-5-yl)ethyl)amino)methyl)benzyl)carbamoyl)-1-methyl-1H-pyrazol-5-yl)methoxy)phenyl)(phenyl)methyl)carbamate;

(R)-quinuclidin-3-yl((S)-(3-((3-((4-(((R)-2-hydroxy-2-(8-hydroxy-2-oxo-1,2-dihydroquinolin-5-yl)ethyl)amino)methyl)-3-methoxybenzyl)carbamoyl)-1-methyl-1H-pyrazol-5-yl)methoxy)phenyl)(phenyl)methyl)carbamate;

(R)-quinuclidin-3-yl((S)-(3-((3-((3-fluoro-4-(((R)-2-hydroxy-2-(8-hydroxy-2-oxo-1,2-dihydroquinolin-5-yl)ethyl)amino)methyl)benzyl)carbamoyl)-1-methyl-1H-pyrazol-5-yl)methoxy)phenyl)(phenyl)methyl)carbamate;

(R)-quinuclidin-3-yl((S)-(3-((5-((4-(((R)-2-hydroxy-2-(8-hydroxy-2-oxo-1,2-dihydroquinolin-5-yl)ethyl)amino)butyl)carbamoyl)furan-2-yl)methoxy)phenyl)(phenyl)-methyl)carbamate;

(R)-quinuclidin-3-yl((S)-(3-((5-(ethyl(3-(((R)-2-hydroxy-2-(8-hydroxy-2-oxo-1,2-dihydroquinolin-5-yl)ethyl)amino)propyl)carbamoyl)furan-2-yl)methoxy)phenyl)(phenyl)-methyl)carbamate;

(R)-quinuclidin-3-yl((S)-(3-((4((4-(((R)-2-hydroxy-2-(8-hydroxy-2-oxo-1,2-dihydroquinolin-5-yl)ethyl)amino)butyl)carbamoyl)oxazol-2-yl)methoxy)phenyl)(phenyl)-methyl)carbamate;

(R)-quinuclidin-3-yl((S)-(3-((4((4(4-(((R)-2-hydroxy-2-(8-hydroxy-2-oxo-1,2-dihydroquinolin-5-yl)ethyl)amino)butyl)carbamoyl)thiazol-2-yl)methoxy)phenyl)(phenyl)-methyl)carbamate;

(R)-quinuclidin-3-yl((S)-(3-((3-((4-(((R)-2-hydroxy-2-(8-hydroxy-2-oxo-1,2-dihydroquinolin-5-yl)ethyl)amino)butyl)carbamoyl)benzyl)oxy)phenyl)(phenyl)-methyl)carbamate;

(R)-quinuclidin-3-yl((S)-(3-((5-((4-(((R)-2-hydroxy-2-(8-hydroxy-2-oxo-1,2-dihydroquinolin-5-yl)ethyl)amino)butyl)carbamoyl)furan-3-yl)methoxy)phenyl)(phenyl)-methyl)carbamate;

(R)-3-((S)-(3-((5-((4-((R)-2-hydroxy-2-(8-hydroxy-2-oxo-1,2-dihydroquinolin-5-yl)ethyl)amino)butoxy)carbonyl)furan-2-yl)methoxy)phenyl)(phenyl)methylcarbamoyloxy)-1-(2-oxo-2-(thiophen-2-yl)ethyl)-1-azoniabicyclo[2.2.2]octane chloride hydrochloride;

(R)-quinuclidin-3-yl((S)-(3-((4-((4-(((R)-2-hydroxy-2-(8-hydroxy-2-oxo-1,2-dihydroquinolin-5-yl)ethyl)amino)methyl)benzyl)carbamoyl)-benzyl)oxy)phenyl)(phenyl)-methyl)carbamate;

- (R)-quinuclidin-3-yl((S)-(3-((4-((4-(((R)-2-hydroxy-2-(8-hydroxy-2-oxo-1,2-dihydroquinolin-5-yl)ethyl)amino)methyl)-3-methoxybenzyl)carbamoyl)benzyl)oxy)-phenyl)(phenyl)methyl)carbamate;
- 5 (R)-quinuclidin-3-yl((S)-(3-((5-((3-(((R)-2-hydroxy-2-(8-hydroxy-2-oxo-1,2-dihydroquinolin-5-yl)ethyl)amino)propyl)(methyl)carbamoyl)-1-methyl-1H-pyrazol-3-yl)methoxy)phenyl)(phenyl)methyl)carbamate;
- (R)-quinuclidin-3-yl((S)-(3-((5-((3-(((R)-2-hydroxy-2-(8-hydroxy-2-oxo-1,2-dihydroquinolin-5-yl)ethyl)amino)propyl)(methyl)carbamoyl)-1-ethyl-1H-pyrazol-3-yl)methoxy)phenyl)(phenyl)methyl)carbamate;
- 10 (R)-quinuclidin-3-yl((S)-(3-((4-((4-(((R)-2-hydroxy-2-(8-hydroxy-2-oxo-1,2-dihydroquinolin-5-yl)ethyl)amino)butyl)(methyl)carbamoyl)benzyl)oxy)phenyl)(phenyl)-methyl)carbamate;
- (R)-quinuclidin-3-yl((S)-(3-((4-(ethyl(4-(((R)-2-hydroxy-2-(8-hydroxy-2-oxo-1,2-dihydroquinolin-5-yl)ethyl)amino)butyl)carbamoyl)benzyl)oxy)phenyl)(phenyl)-methyl)carbamate;
- 15 (R)-quinuclidin-3-yl((S)-(3-((3-((3-(((R)-2-hydroxy-2-(8-hydroxy-2-oxo-1,2-dihydroquinolin-5-yl)ethyl)amino)propyl)(methyl)carbamoyl)-benzyl)oxy)phenyl)(phenyl)-methyl)carbamate;
- 20 (R)-quinuclidin-3-yl((S)-(3-((3-(ethyl(3-(((R)-2-hydroxy-2-(8-hydroxy-2-oxo-1,2-dihydroquinolin-5-yl)ethyl)amino)propyl)carbamoyl)benzyl)oxy)-phenyl)(phenyl)-methyl)carbamate;
- (R)-quinuclidin-3-yl((S)-(3-((4-(2-((3-(((R)-2-hydroxy-2-(8-hydroxy-2-oxo-1,2-dihydroquinolin-5-yl)ethyl)amino)propyl)(methyl)amino)-2-oxoethyl)benzyl)oxy)phenyl)-(phenyl)methyl)carbamate;
- 25 (R)-quinuclidin-3-yl((S)-(3-((4-(2-((3-(((R)-2-hydroxy-2-(8-hydroxy-2-oxo-1,2-dihydroquinolin-5-yl)ethyl)amino)propyl)amino)-2-oxoethyl)benzyl)oxy)phenyl)-(phenyl)methyl)carbamate;
- (R)-quinuclidin-3-yl((S)-(3-((5'-(((R)-2-hydroxy-2-(8-hydroxy-2-oxo-1,2-dihydroquinolin-5-yl)ethyl)amino)methyl)-2'-methoxy-[1,1'-biphenyl]-4-yl)methoxy)phenyl)-(phenyl)methyl)carbamate;
- 30

(R)-quinuclidin-3-yl((S)-(3-((4'-(((R)-2-hydroxy-2-(8-hydroxy-2-oxo-1,2-dihydroquinolin-5-yl)ethyl)amino)methyl)-3'-methoxy-[1,1'-biphenyl]-4-yl)methoxy)phenyl)-(phenyl)methyl)carbamate;

5 (R)-quinuclidin-3-yl((S)-(3-((3'-(((R)-2-hydroxy-2-(8-hydroxy-2-oxo-1,2-dihydroquinolin-5-yl)ethyl)amino)methyl)-4'-methoxy-[1,1'-biphenyl]-4-yl)methoxy)phenyl)-(phenyl)methyl)carbamate;

(R)-quinuclidin-3-yl((S)-(3-((4-(((R)-2-hydroxy-2-(8-hydroxy-2-oxo-1,2-dihydroquinolin-5-yl)ethyl)amino)methyl)benzyl)oxy)phenyl)(phenyl)methyl)carbamate;

10 (R)-quinuclidin-3-yl((S)-(3-((5-(((R)-2-hydroxy-2-(8-hydroxy-2-oxo-1,2-dihydroquinolin-5-yl)ethyl)amino)methyl)furan-2-yl)methoxy)phenyl)(phenyl)methyl)carbamate;

(R)-quinuclidin-3-yl((S)-(3-((3-2-(((R)-2-hydroxy-2-(8-hydroxy-2-oxo-1,2-dihydroquinolin-5-yl)ethyl)amino)ethyl)benzyl)oxy)phenyl)(phenyl)methyl)carbamate;

15 (R)-quinuclidin-3-yl((S)-(3-((3-(((R)-2-hydroxy-2-(8-hydroxy-2-oxo-1,2-dihydroquinolin-5-yl)ethyl)amino)methyl)benzyl)oxy)phenyl)(phenyl)methyl)carbamate;

(R)-quinuclidin-3-yl((S)-(3-((6-(((R)-2-hydroxy-2-(8-hydroxy-2-oxo-1,2-dihydroquinolin-5-yl)ethyl)amino)methyl)pyridin-3-yl)methoxy)phenyl)(phenyl)methyl)carbamate;

20 (R)-quinuclidin-3-yl((S)-(3-((4-(((R)-2-hydroxy-2-(8-hydroxy-2-oxo-1,2-dihydroquinolin-5-yl)ethyl)amino)methyl)-3-methoxybenzyl)oxy)phenyl)(phenyl)methyl)carbamate;

(R)-quinuclidin-3-yl((S)-(3-2-((4-(((R)-2-hydroxy-2-(8-hydroxy-2-oxo-1,2-dihydroquinolin-5-yl)ethyl)amino)methyl)phenyl)amino)-2-oxoethoxy)phenyl)-(phenyl)methyl)carbamate;

(R)-quinuclidin-3-yl((S)-(3-2-((4-(((R)-2-hydroxy-2-(8-hydroxy-2-oxo-1,2-dihydroquinolin-5-yl)ethyl)amino)methyl)-3-methoxyphenyl)amino)-2-oxoethoxy)phenyl)-(phenyl)methyl)carbamate;

30 (R)-quinuclidin-3-yl((S)-(3-2-((2-chloro-4-(((R)-2-hydroxy-2-(8-hydroxy-2-oxo-1,2-dihydroquinolin-5-yl)ethyl)amino)methyl)-5-methoxyphenyl)amino)-2-oxoethoxy)-phenyl)(phenyl)methyl)carbamate;

(R)-quinuclidin-3-yl((S)-(3-(2-((3-ethoxy-4-(((R)-2-hydroxy-2-(8-hydroxy-2-oxo-1,2-dihydroquinolin-5-yl)ethyl)amino)methyl)phenyl)amino)-2-oxoethoxy)phenyl)-(phenyl)methyl)carbamate;

(R)-quinuclidin-3-yl((S)-(3-((4-(2-(((R)-2-hydroxy-2-(8-hydroxy-2-oxo-1,2-dihydroquinolin-5-yl)ethyl)amino)ethyl)-3-(trifluoromethyl)benzyl)oxy)phenyl)-(phenyl)methyl)carbamate;

(R)-quinuclidin-3-yl((S)-(3-((3-chloro-4-(2-(((R)-2-hydroxy-2-(8-hydroxy-2-oxo-1,2-dihydroquinolin-5-yl)ethyl)amino)ethyl)benzyl)oxy)phenyl)(phenyl)methyl)carbamate; and

(R)-quinuclidin-3-yl((S)-(3-((4-(2-(((R)-2-hydroxy-2-(8-hydroxy-2-oxo-1,2-dihydroquinolin-5-yl)ethyl)amino)ethyl)-2-methylbenzyl)oxy)phenyl)(phenyl)methyl)carbamate,

or a pharmaceutically acceptable salt of said compound.

6. A combination, comprising a compound or pharmaceutically acceptable salt according to any one of claims 1 to 5 and one or more active ingredients selected from the group consisting of a beta2-agonist, antimuscarinic agent, mitogen-activated protein kinase (P38 MAP kinase) inhibitor, nuclear factor kappa-B kinase subunit beta (IKK2) inhibitor, human neutrophil elastase (HNE) inhibitor, phosphodiesterase 4 (PDE4) inhibitor, leukotriene modulator, non-steroidal anti-inflammatory agent (NSAID), antitussive agent, mucus regulator, mucolytic, expectorant/mucokinetic modulator, peptide mucolytic, antibiotic, inhibitor of JAK, SYK inhibitor, inhibitor of PI3Kdelta or PI3Kgamma, corticosteroid, and M3-antagonist/PDE4-inhibitor (MAPI).

7. A pharmaceutical composition, comprising a compound or pharmaceutically acceptable salt according to any one of claims 1 to 5 and one or more pharmaceutically acceptable carriers and/or excipients.

8. A pharmaceutical composition according to claim 7, which is in a form suitable to be administered by inhalation.

9. A pharmaceutical composition according to claim 7, which is an inhalable

powder, a propellant-containing metering aerosol, or a propellant-free inhalable formulation.

10. A compound or pharmaceutically acceptable salt according to any one of claims
5 1 to 5, a combination according to claim 6, or a pharmaceutical composition according
to any one of claims 7 to 9 for use in the treatment of a broncho-obstructive or
inflammatory disease, wherein said broncho-obstructive or inflammatory disease is
asthma, chronic bronchitis, or chronic obstructive pulmonary disease.
- 10 11. The compound or pharmaceutically acceptable salt, the combination or the
pharmaceutical composition for use according to claim 10, wherein said broncho-
obstructive or inflammatory disease is asthma.
12. The compound or pharmaceutically acceptable salt, the combination or the
15 pharmaceutical composition for use according to claim 10, wherein said broncho-
obstructive or inflammatory disease is chronic bronchitis.
13. The compound or pharmaceutically acceptable salt, the combination or the
pharmaceutical composition for use according to claim 10, wherein said broncho-
20 obstructive or inflammatory disease is chronic obstructive pulmonary disease.
14. Use of a compound or pharmaceutically acceptable salt according to any one of
claims 1 to 5, a combination according to claim 6, or a pharmaceutical composition
according to any one of claims 7 to 9 in the manufacture of a medicament for the
25 treatment of a broncho-obstructive or inflammatory disease, wherein said broncho-
obstructive or inflammatory disease is asthma, chronic bronchitis, or chronic obstructive
pulmonary disease.
15. The use according to claim 14, wherein said broncho-obstructive or
30 inflammatory disease is asthma.

16. The use according to claim 14, wherein said broncho-obstructive or inflammatory disease is chronic bronchitis.
17. The use according to claim 14, wherein said broncho-obstructive or
5 inflammatory disease is chronic obstructive pulmonary disease.
18. A device comprising, a pharmaceutical composition according to any one of claims 7 to 9, which is a single- or multi-dose dry powder inhaler, a metered dose inhaler, or a soft mist nebulizer.