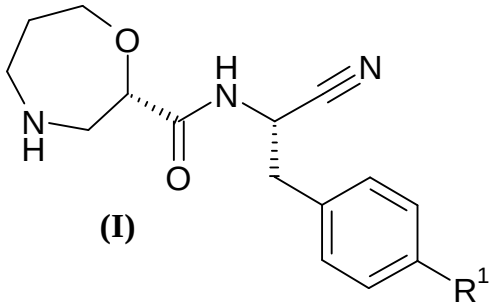
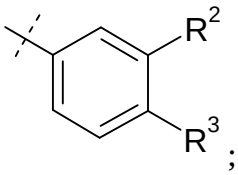
CLAIMS

1. A compound of formula **(I)**



(I)

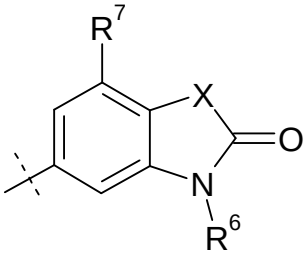
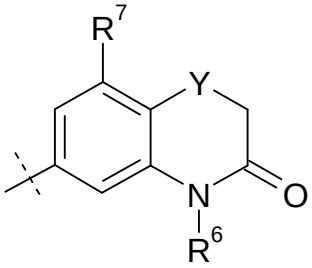
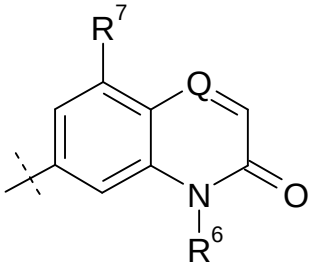
wherein

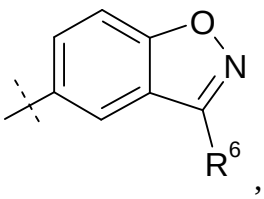
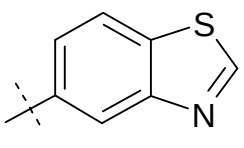
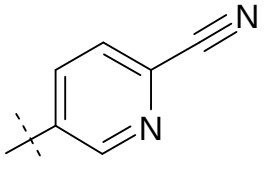
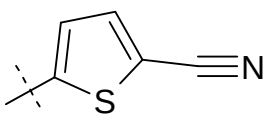
R1 is  ;

R2 is selected from hydrogen, F, Cl, Br, OSO_2C_{1-3}alkyl, or C_{1-3}alkyl;

R3 is selected from hydrogen, F, Cl, Br, CN, CF_3, SO_2C_{1-3}alkyl, $CONH_2$ or SO_2N**R4R5**, wherein **R4** and **R5** together with the nitrogen atom to which they are attached form a azetidine, pyrrolidine or piperidine ring; or

R1 is selected from

 ,  ,  ,

 ,  ,  or  ;

X is selected from O, S or CF_2;

Y is selected from O or S;

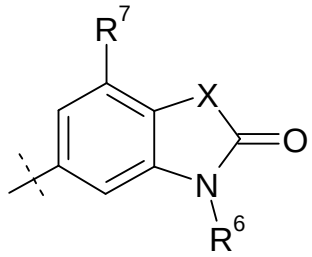
Q is selected from CH or N;

R6 is selected from C_{1-3}alkyl, wherein said C_{1-3}alkyl is optionally substituted by 1, 2 or 3 F and optionally by one substituent selected from OH, OC_{1-3}alkyl, $N(C_{1-3}alkyl)_2$, cyclopropyl, or tetrahydropyran;

R7 is selected from hydrogen, F, Cl or CH_3;

or a pharmaceutically-acceptable salt thereof for use in therapy.

2. A compound for use according to claim 1 wherein

R1 is 

;

or a pharmaceutically acceptable salt thereof.

3. A compound for use according to either claim 1 or claim 2 wherein

X is O;

R6 is C_{1-3}alkyl; and

R7 is hydrogen;

or a pharmaceutically acceptable salt thereof .

4. A compound of the formula **(I)** for use according to claim 1, wherein the compound is selected from:

(2*S*)-*N*-[(1*S*)-1-Cyano-2-(4'-cyanobiphenyl-4-yl)ethyl]-1,4-oxazepane-2-carboxamide;

(2*S*)-*N*-{(1*S*)-1-Cyano-2-[4-(3-methyl-2-oxo-2,3-dihydro-1,3-benzoxazol-5-yl)phenyl]ethyl}-1,4-oxazepane-2-carboxamide;

(2*S*)-*N*-{(1*S*)-1-Cyano-2-[4-(3,7-dimethyl-2-oxo-2,3-dihydro-1,3-benzoxazol-5-yl)phenyl]ethyl}-1,4-oxazepane-2-carboxamide;

4'-[(2*S*)-2-Cyano-2-{[(2*S*)-1,4-oxazepan-2-ylcarbonyl]amino}ethyl]biphenyl-3-yl methanesulfonate;

(2*S*)-*N*-{(1*S*)-1-Cyano-2-[4-(3-methyl-1,2-benzoxazol-5-yl)phenyl]ethyl}-1,4-oxazepane-2-carboxamide;

(2*S*)-*N*-{(1*S*)-1-Cyano-2-[4'-(trifluoromethyl)biphenyl-4-yl]ethyl}-1,4-oxazepane-2-carboxamide;

(2*S*)-*N*-[(1*S*)-1-Cyano-2-(3',4'-difluorobiphenyl-4-yl)ethyl]-1,4-oxazepane-2-carboxamide;

(2*S*)-*N*-{(1*S*)-1-Cyano-2-[4-(6-cyanopyridin-3-yl)phenyl]ethyl}-1,4-oxazepane-2-carboxamide;

(2*S*)-*N*-{(1*S*)-1-Cyano-2-[4-(4-methyl-3-oxo-3,4-dihydro-2*H*-1,4-benzothiazin-6-yl)phenyl]ethyl}-1,4-oxazepane-2-carboxamide;

(2*S*)-*N*-{(1*S*)-1-Cyano-2-[4-(3-ethyl-7-methyl-2-oxo-2,3-dihydro-1,3-benzoxazol-5-yl)phenyl]ethyl}-1,4-oxazepane-2-carboxamide;

(2*S*)-*N*-[(1*S*)-1-Cyano-2-{4-[3-(2-hydroxy-2-methylpropyl)-2-oxo-2,3-dihydro-1,3-benzoxazol-5-yl]phenyl}ethyl]-1,4-oxazepane-2-carboxamide;

(2*S*)-*N*-[(1*S*)-1-Cyano-2-{4-[3-(2,2-difluoroethyl)-7-fluoro-2-oxo-2,3-dihydro-1,3-benzoxazol-5-yl]phenyl}ethyl]-1,4-oxazepane-2-carboxamide;

(2*S*)-*N*-[(1*S*)-1-Cyano-2-(4-{3-[2-(dimethylamino)ethyl]-2-oxo-2,3-dihydro-1,3-benzoxazol-5-yl}phenyl)ethyl]-1,4-oxazepane-2-carboxamide;

(2*S*)-*N*-{(1*S*)-1-Cyano-2-[4-(3,3-difluoro-1-methyl-2-oxo-2,3-dihydro-1*H*-indol-6-yl)phenyl]ethyl}-1,4-oxazepane-2-carboxamide;

(2*S*)-*N*-{(1*S*)-1-Cyano-2-[4-(7-fluoro-3-methyl-2-oxo-2,3-dihydro-1,3-benzoxazol-5-yl)phenyl]ethyl}-1,4-oxazepane-2-carboxamide;

(2*S*)-*N*-{(1*S*)-1-Cyano-2-[4-(3-ethyl-2-oxo-2,3-dihydro-1,3-benzoxazol-5-yl)phenyl]ethyl}-1,4-oxazepane-2-carboxamide;

(2*S*)-*N*-[(1*S*)-1-Cyano-2-{4-[3-(cyclopropylmethyl)-2-oxo-2,3-dihydro-1,3-benzoxazol-5-yl]phenyl}ethyl]-1,4-oxazepane-2-carboxamide;

(2*S*)-*N*-[(1*S*)-1-Cyano-2-{4-[3-(2-methoxyethyl)-2-oxo-2,3-dihydro-1,3-benzothiazol-5-yl]phenyl}ethyl]-1,4-oxazepane-2-carboxamide;

(2*S*)-*N*-[(1*S*)-1-Cyano-2-{4-[2-oxo-3-(propan-2-yl)-2,3-dihydro-1,3-benzoxazol-5-yl]phenyl}ethyl]-1,4-oxazepane-2-carboxamide;

(2*S*)-*N*-{(1*S*)-1-Cyano-2-[4-(4-methyl-3-oxo-3,4-dihydro-2*H*-1,4-benzoxazin-6-yl)phenyl]ethyl}-1,4-oxazepane-2-carboxamide;

(2*S*)-*N*-[(1*S*)-1-Cyano-2-{4-[3-(2-methoxyethyl)-2-oxo-2,3-dihydro-1,3-benzoxazol-5-yl]phenyl}ethyl]-1,4-oxazepane-2-carboxamide;

(2*S*)-*N*-{(1*S*)-1-Cyano-2-[4-(5-cyanothiophen-2-yl)phenyl]ethyl}-1,4-oxazepane-2-carboxamide;

(2*S*)-*N*-[(1*S*)-2-(4'-Carbamoyl-3'-fluorobiphenyl-4-yl)-1-cyanoethyl]-1,4-oxazepane-2-carboxamide;

(2*S*)-*N*-{(1*S*)-1-Cyano-2-[4-(1-methyl-2-oxo-1,2-dihydroquinolin-7-yl)phenyl]ethyl}-1,4-oxazepane-2-carboxamide;

(2*S*)-*N*-[(1*S*)-1-Cyano-2-{4-[2-oxo-3-(tetrahydro-2*H*-pyran-4-ylmethyl)-2,3-dihydro-1,3-benzoxazol-5-yl]phenyl}ethyl]-1,4-oxazepane-2-carboxamide;

(2*S*)-*N*-{(1*S*)-2-[4-(7-Chloro-3-methyl-2-oxo-2,3-dihydro-1,3-benzoxazol-5-yl)phenyl]-1-cyanoethyl}-1,4-oxazepane-2-carboxamide;

(2*S*)-*N*-[(1*S*)-1-Cyano-2-{4-[3-(2,2-difluoroethyl)-2-oxo-2,3-dihydro-1,3-benzoxazol-5-yl]phenyl}ethyl]-1,4-oxazepane-2-carboxamide;

(2*S*)-*N*-[(1*S*)-1-Cyano-2-{4-[2-oxo-3-(2,2,2-trifluoroethyl)-2,3-dihydro-1,3-benzoxazol-5-yl]phenyl}ethyl]-1,4-oxazepane-2-carboxamide;

(2*S*)-*N*-{(1*S*)-1-Cyano-2-[4-(3-methyl-2-oxo-2,3-dihydro-1,3-benzothiazol-5-yl)phenyl]ethyl}-1,4-oxazepane-2-carboxamide;

(2*S*)-*N*-{(1*S*)-1-Cyano-2-[4'-(methylsulfonyl)biphenyl-4-yl]ethyl}-1,4-oxazepane-2-carboxamide;

(2*S*)-*N*-{(1*S*)-2-[4'-(Azetidin-1-ylsulfonyl)biphenyl-4-yl]-1-cyanoethyl}-1,4-oxazepane-2-carboxamide;

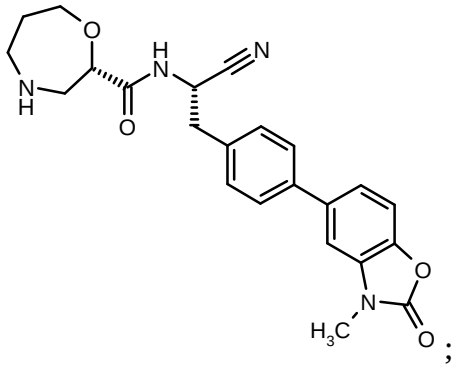
(2*S*)-*N*-[(1*S*)-1-Cyano-2-(4'-fluorobiphenyl-4-yl)ethyl]-1,4-oxazepane-2-carboxamide;

(2*S*)-*N*-{(1*S*)-2-[4-(1,3-Benzothiazol-5-yl)phenyl]-1-cyanoethyl}-1,4-oxazepane-2-carboxamide;

(2*S*)-*N*-[(1*S*)-1-Cyano-2-(4'-cyanobiphenyl-4-yl)ethyl]-1,4-oxazepane-2-carboxamide;

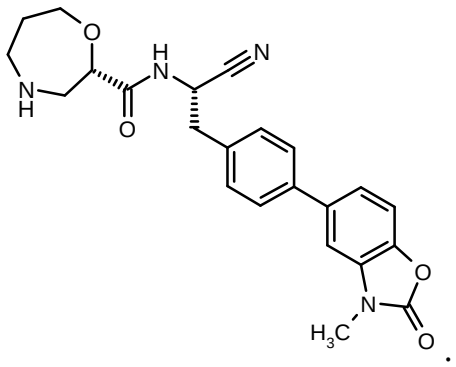
and pharmaceutically acceptable salts thereof.

5. A compound for use according to claim 1 wherein the compound is (2*S*)-*N*-{(1*S*)-1-cyano-2-[4-(3-methyl-2-oxo-2,3-dihydro-1,3-benzoxazol-5-yl)phenyl]ethyl}-1,4-oxazepane-2-carboxamide



or a pharmaceutically acceptable salt thereof.

6. A compound for use according to claim 1 wherein the compound is (2*S*)-*N*-{(1*S*)-1-cyano-2-[4-(3-methyl-2-oxo-2,3-dihydro-1,3-benzoxazol-5-yl)phenyl]ethyl}-1,4-oxazepane-2-carboxamide



7. A compound of formula (I) for use as claimed in any one of claims 1 to 6, wherein the use in therapy comprises use in the treatment of obstructive diseases of the airways: including any of asthma, including bronchial, allergic, intrinsic, extrinsic, exercise-induced, drug-induced (including aspirin and NSAID-induced) and dust-induced asthma, both intermittent and persistent and of all severities, and other causes of airway hyper-responsiveness; chronic obstructive pulmonary disease (COPD); bronchitis, including infectious and eosinophilic bronchitis; emphysema; bronchiectasis; cystic fibrosis; sarcoidosis; alpha-1 antitrypsin deficiency; farmer's lung and related diseases; hypersensitivity pneumonitis; lung fibrosis, including cryptogenic fibrosing alveolitis, idiopathic interstitial pneumonias, fibrosis complicating anti-neoplastic therapy and chronic infection, including tuberculosis and aspergillosis and other fungal infections; complications of lung transplantation; vasculitic and

thrombotic disorders of the lung vasculature, and pulmonary hypertension; antitussive activity including treatment of chronic cough associated with inflammatory and secretory conditions of the airways, and iatrogenic cough; acute and chronic rhinitis including rhinitis medicamentosa, and vasomotor rhinitis; perennial and seasonal allergic rhinitis including rhinitis nervosa (hay fever); nasal polyposis; acute viral infection including the common cold, and infection due to respiratory syncytial virus, influenza, coronavirus (including SARS) and adenovirus, acute lung injury, adult respiratory distress syndrome (ARDS), as well as exacerbations of each of the foregoing respiratory tract disease states, in particular exacerbations of all types of asthma or COPD.

8. A compound of formula **(I)** for use as claimed in claim 7 wherein the use in therapy comprises use in treating asthma or chronic obstructive pulmonary disease.