TRICYCLIC OXAZOLIDINONE ANTIBIOTIC COMPOUNDS

The present invention concerns tricyclic oxazolidinone antibiotic compounds, a pharmaceutical antibacterial composition containing them and the use of these compounds in the manufacture of a medicament for the treatment of infections (e.g. bacterial infections). These compounds are useful antimicrobial agents effective against a variety of human and veterinary pathogens including among others Gram-positive and Gram-negative aerobic and anaerobic bacteria and mycobacteria.

The intensive use of antibiotics has exerted a selective evolutionary pressure on microorganisms to produce genetically based resistance mechanisms. Modern medicine and socio-economic behaviour exacerbate the problem of resistance development by creating slow growth situations for pathogenic microbes, e.g. in artificial joints, and by supporting long-term host reservoirs, e.g. in immuno-compromised patients.

In hospital settings, an increasing number of strains of *Staphylococcus aureus*, *Streptococcus pneumoniae*, *Enterococcus spp.*, and *Pseudomonas aeruginosa*, major sources of infections, are becoming multi-drug resistant and therefore difficult if not impossible to treat:

- *S. aureus* is resistant to ß-lactams, quinolones and now even to vancomycin;
- *S. pneumoniae* is becoming resistant to penicillin or quinolone antibiotics and even to new macrolides;
- *Enteroccocci* are quinolone and vancomycin resistant and ß-lactam antibiotics are inefficacious against these strains;
- *Enterobacteriacea* are cephalosporin and quinolone resistant;
- *P. aeruginosa* are ß-lactam and quinolone resistant.

Furthermore, the incidence of multi-drug-resistant Gram-negative strains such as *Enterobacteriacae* and *Pseudomonas aeruginosa,* is steadily increasing and new emerging organisms like *Acinetobacter spp. or Clostridium difficile*, which have been selected during therapy with the currently used antibiotics, are becoming a real problem in hospital settings. Therefore, there is a high medical need for new antibacterial agents which overcome multidrug-resistant Gram-negative bacilli such as *A. baumannii*, ESBL-producing *E. coli* and *Klebsiella* species and *Pseudomonas aeruginosa* (*Clinical Infectious Diseases* (2006), **42**, 657-68).

In addition, microorganisms that are causing persistent infections are increasingly being recognized as causative agents or cofactors of severe chronic diseases like peptic ulcers or heart diseases.

Azatricyclic antibiotic compounds have already been described in WO 2007/071936 and WO 2007/122258 (disclosing 3-oxo-1,2-dihydro-3*H*-2a,6-diaza-acenaphthylene-1-methyl derivatives), WO 2007/081597 (disclosing 4-oxo-1,2-dihydro-4*H*-pyrrolo[3,2,1-*ij*]quinoline-1-methyl derivatives), WO 2007/115947 (disclosing 3-oxo-5,6-dihydro-3*H*-pyrrolo[1,2,3-*de*]quinoxaline-6-methyl derivatives) and WO 2008/003690 (disclosing notably 1-(7-oxo-5,6,9a,9b-tetrahydro-4*H*,7*H*-1,6a-diaza-phenalen-5-yl)-piperidine-4-yl and 1-(5-oxo-2,3,7a,10b-tetrahydro-1*H*,5*H*-pyrido[3,2,1-*ij*]quinolin-2-yl)-piperidine-4-yl derivatives). More recently, further azatricyclic antibiotics have been described in WO 2008/120003, WO 2008/128942, WO 2008/128953, WO 2008/128962, WO 2009/000745 and WO 2009/087153 (all filed before, but published published after the earliest priority date(s) of the present application).

Quinoline, naphthyridine or quinoxaline spirooxazolidinone antibiotic compounds have already been described in WO 2008/026172. More recently, other antibiotic compounds comprising an oxazolidinone motif have been disclosed in WO 2008/126024, WO 2008/126034, WO 2009/077989 and WO 2009/104159 (all filed before, but published after the earliest priority date(s) of the present application).

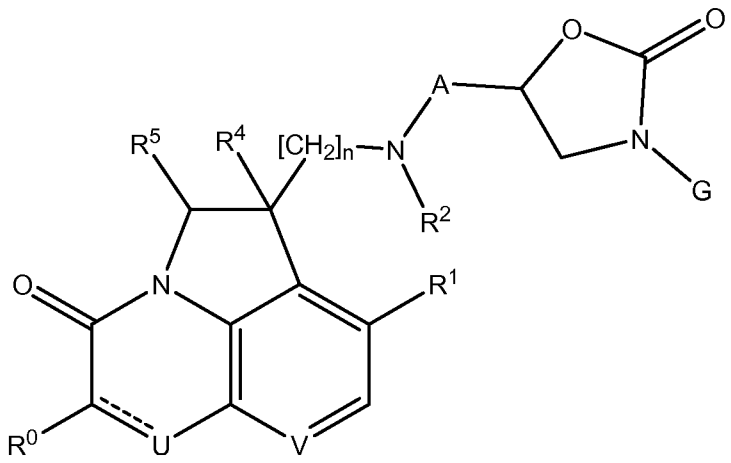
Moreover, azatricyclic antibiotics comprising an oxazolidinone motif have been described in WO 2009/104147 (the priority or filing dates of which are earlier than some of or all

those of the present application, while the publication took place after the priority dates of the present application).

The Applicants have now found a new family of tricyclic antibiotic compounds corresponding to the formula I described hereafter.

Various embodiments of the invention are presented hereafter:

i) The invention firstly relates to compounds of formula I



I

wherein

"-----" is a bond or is absent;

R^0 represents H or, in the case "-----" is a bond, may also represent (C_1-C_3)alkoxy (in particular methoxy);

R^1 represents H, halogen (notably F, Cl or Br), cyano, (C_1-C_3)alkyl (notably methyl) or ethynyl;

U represents CH or N when "-----" is a bond, or, in case "----" is absent, U represents CH_2, NH or NR^9;

V represents CH, CR^6 or N;

R^2 represents H, (C_1-C_3)alkylcarbonyl or a group of the formula $-CH_2-R^3$;

R^3 represents H, (C_1-C_3)alkyl or (C_1-C_3)hydroxyalkyl;

R^4 represents H or, in the cases wherein n is not 0 and R^5 is H, may also represent OH;

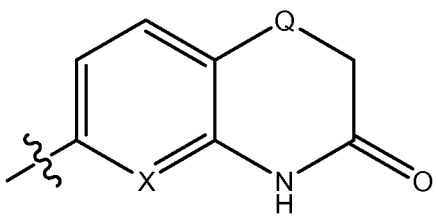
R^5 represents H, (C_1-C_3)alkyl (notably methyl), (C_1-C_3)hydroxyalkyl (notably hydroxymethyl), (C_1-C_3)aminoalkyl (notably aminomethyl), (C_1-C_3)alkoxy(C_1-C_3)alkyl (notably methoxymethyl), carboxy or (C_1-C_3)alkoxycarbonyl (notably methoxycarbonyl);

R^6 represents $(C_1$-$C_3)$hydroxyalkyl (notably hydroxymethyl), carboxy, $(C_1$-$C_3)$alkoxycarbonyl or a group $-(CH_2)_q-NR^7R^8$ wherein q is 1, 2 or 3 and each of R^7 and R^8 independently represents H or $(C_1$-$C_3)$alkyl or R^7 and R^8 form together with the nitrogen atom bearing them a pyrrolidinyl, piperidinyl, morpholinyl or thiomorpholinyl ring;

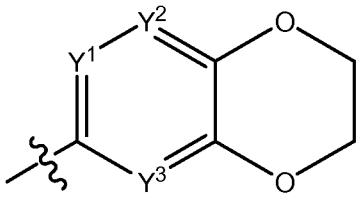
R^9 represents $(C_1$-$C_3)$alkyl (notably methyl), 2-hydroxy-ethyl, 2-hydroxy-propyl or 3-hydroxy-propyl;

A represents $-(CH_2)_p-$, $-CH_2CH_2CH(OH)-$ or $-COCH_2CH(OH)-$;

G represents a phenyl group which is substituted once or twice in the meta and/or para position(s) by substituents selected independently from $(C_1$-$C_4)$alkyl, $(C_1$-$C_3)$alkoxy and a halogen (notably F), whereby a $(C_1$-$C_3)$alkoxy substituent is preferably a straight chain $(C_1$-$C_3)$alkoxy and in para position, or G is a group having one of the formulae G^1 and G^2 below



G^1



G^2

wherein

Q is O or S and X is CH or N; and

Y^1, Y^2 and Y^3 each represent CH, or Y^1 and Y^3 each represent CH and Y^2 represents N, or Y^1 represents N, Y^2 represents CH or N and Y^3 represents CH, or Y^1 and Y^2 each represent CH and Y^3 represents N; and

n is 0 when A represents $-CH_2CH_2CH(OH)-$ or $-COCH_2CH(OH)-$, and n is 0, 1 or 2 when A represents $(CH_2)_p$, p being 1, 2, 3 or 4, with the proviso that the sum of n and p is then 2, 3 or 4 (i.e. when n is 0, p is not 1, when n is 1, p is not 4 and when n is 2, p is neither 3 nor 4);

and to salts (in particular pharmaceutically acceptable salts) of compounds of formula I.

The following paragraphs provide definitions of the various chemical moieties for the compounds according to the invention and are intended to apply uniformly throughout the specification and claims, unless an otherwise expressly set out definition provides a broader or narrower definition:

- The term "alkyl", used alone or in combination, refers to a straight or branched chain alkyl group containing from one to four carbon atoms. The term "(C_1-C_x)alkyl" (x being an integer) refers to a straight or branched chain alkyl group containing 1 to x carbon atoms. For example, a (C_1-C_4)alkyl group contains from one to four carbon atoms. Representative examples of alkyl groups include methyl, ethyl, propyl, *iso*-propyl, *n*-butyl, *iso*-butyl, *sec*-butyl and *tert*-butyl. Preferred are methyl and ethyl. Most preferred is methyl.

- The term "alkoxy", used alone or in combination, refers to a straight or branched chain alkoxy group containing from one to four carbon atoms. The term "(C_x-C_y)alkoxy" (x and y each being an integer) refers to an alkoxy group as defined before containing x to y carbon atoms. For example, a (C_1-C_3)alkoxy group contains from one to three carbon atoms. Representative examples of alkoxy groups include methoxy, ethoxy, *n*-propoxy and *iso*-propoxy. Preferred are methoxy and ethoxy.

- The term "hydroxyalkyl" refers to a straight or branched chain alkyl group containing from one to four carbon atoms wherein one of the hydrogen atoms has been replaced by a hydroxy group. The term "(C_1-C_x)hydroxyalkyl" (x being an integer) refers to an hydroxyalkyl group wherein the alkyl group contains 1 to x carbon atoms. Representative examples of (C_1-C_3)hydroxyalkyl groups include, but are not limited to, hydroxymethyl, 2-hydroxy-ethyl, 1-hydroxy-ethyl and 2-hydroxy-propyl. Preferred (C_1-C_3)hydroxyalkyl groups are hydroxymethyl and 2-hydroxy-propyl. The most preferred (C_1-C_3)hydroxyalkyl group is hydroxymethyl.

- The term "aminoalkyl" refers to a straight or branched chain alkyl group containing from one to four carbon atoms wherein one of the hydrogen atoms has been replaced by an amino group. The term "(C_1-C_x)aminoalkyl" (x being an integer) refers to an aminoalkyl group wherein the alkyl group contains 1 to x carbon atoms. Representative examples of (C_1-C_3)aminoalkyl groups include, but are not limited to, aminomethyl, 2-amino-ethyl, 1-amino-ethyl and 2-amino-propyl. Preferred (C_1-C_3)aminoalkyl groups

are aminomethyl and 2-amino-propyl. The most preferred (C_1-C_3)aminoalkyl group is aminomethyl.

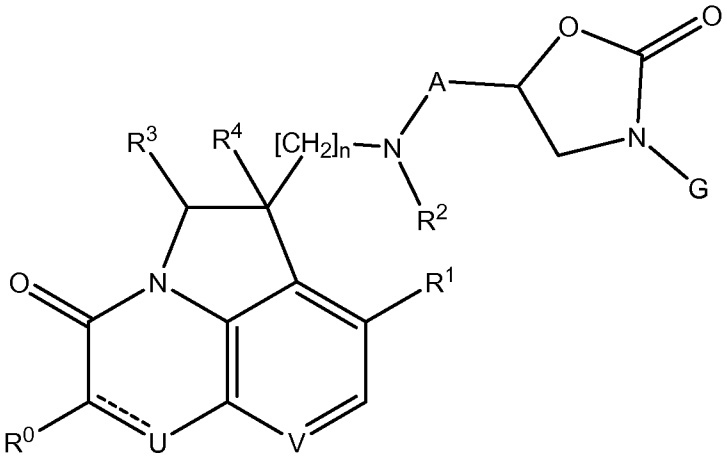
- The term "alkoxyalkyl" refers to an alkoxyalkyl group wherein the alkoxy group is a (C_1-C_4)alkoxy group and the alkyl group is a (C_1-C_4)alkyl group. The term "(C_1-C_x)alkoxy(C_1-C_y)alkyl" (x and y being each independently an integer) refers to an alkoxyalkyl group wherein the alkoxy group contains 1 to x carbon atoms and the alkyl group contains 1 to y carbon atoms. Representative examples of (C_1-C_3)alkoxy(C_1-C_3)alkyl groups include, but are not limited to, methoxymethyl and ethoxymethyl. The most preferred (C_1-C_3)alkoxy(C_1-C_3)alkyl group is methoxymethyl.

- The term "alkylcarbonyl" refers to an alkylcarbonyl group wherein the alkyl is a straight or branched chain alkyl group containing from one to four carbon atoms. The term "(C_1-C_x)alkylcarbonyl" (x being an integer) refers to an alkylcarbonyl group wherein the alkyl is a straight or branched chain alkyl group containing 1 to x carbon atoms. Representative examples of (C_1-C_3)alkylcarbonyl groups include acetyl, ethylcarbonyl, 1-propyl-carbonyl and 2-propyl-carbonyl. Preferred (C_1-C_3)alkylcarbonyl groups are acetyl and ethylcarbonyl. The most preferred (C_1-C_3)alkylcarbonyl group is acetyl.

- The term "alkoxycarbonyl" refers to an alkoxycarbonyl group wherein the alkoxy group is a straight or branched chain alkoxy group containing from one to four carbon atoms. The term "(C_1-C_x)alkoxycarbonyl" (x being an integer) refers to an alkoxycarbonyl group wherein the alkoxy is a straight or branched chain alkoxy group containing 1 to x carbon atoms. Representative examples of (C_1-C_3)alkoxycarbonyl groups include methoxycarbonyl, ethoxycarbonyl, 1-propoxy-carbonyl and 2-propoxy-carbonyl. Preferred (C_1-C_3)alkylcarbonyl groups are methoxycarbonyl and ethoxycarbonyl. The most preferred (C_1-C_3)alkylcarbonyl group is ethoxycarbonyl.

- The term "halogen" refers to fluorine, chlorine, bromine or iodine, and preferably to fluorine or chlorine.

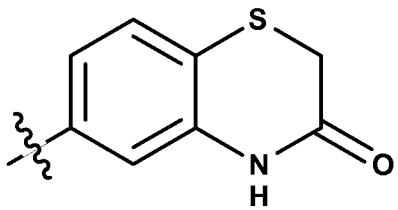
❖ When in the formula



A represents the radical -$CH_2CH_2CH(OH)$-, this means specifically that the CH_2 part of said radical is attached to the neighbouring nitrogen while the CH(OH) part of said radical is attached to the oxazolidinone ring.

This is applicable *mutatis mutandis* to all radicals that make A radicals (e.g. to the radicals A' mentioned in the preparation methods). As a further example, in the substructure A, if it is stated that A represents -$COCH_2CH(OH)$-, it is thereby meant that the CO group of said radical is attached to the neighbouring nitrogen while the CH(OH) part of said radical is attached to the oxazolidinone ring. In other words, the left part of a radical is always attached to the right part of the radical that is next to the left.

In this text, a bond interrupted by a wavy line shows a point of attachment of the radical drawn to the rest of the molecule. For example, the radical drawn below



is the 3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl group.

The compounds of formula I according to this invention may contain one or more stereogenic or asymmetric centers, such as one or more asymmetric carbon atoms. The compounds of formula I may thus be present as mixtures of stereoisomers or, preferably, as

pure stereoisomers. Mixtures of stereoisomers may be separated in a manner known to a person skilled in the art.

Whenever the absolute stereochemistry indication "(*R*)" or "(*S*)" is omitted in the name of a compound although there is a corresponding asymmetric arbon atom, it is meant thereby that this compound name refers to either the (*R*)-configured compound or the (*S*)-configured compound.

The relative configuration of stereoisomers having two asymmetric centers is indicated in this text by using the wording (*R**,*R**) to refer to either the (*R*,*R*)-configured stereomer or the (*S*,*S*)-configured stereomer and the wording (*R**,*S**) to refer to either the (*R*,*S*)-configured stereomer or the (*S*,*R*)-configured stereomer. Thus, for example, (*1R*,2R**)-4-oxo-1-{3-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-propylamino}-1,2-dihydro-4*H*-pyrrolo[3,2,1-*ij*]quinoline-2-carboxylic acid methyl ester refers to either (*1R,2R*)-4-oxo-1-{3-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-propylamino}-1,2-dihydro-4*H*-pyrrolo[3,2,1-*ij*]quinoline-2-carboxylic acid methyl ester or (*1S,2S*)-4-oxo-1-{3-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-propylamino}-1,2-dihydro-4*H*-pyrrolo[3,2,1-*ij*]quinoline-2-carboxylic acid methyl ester.

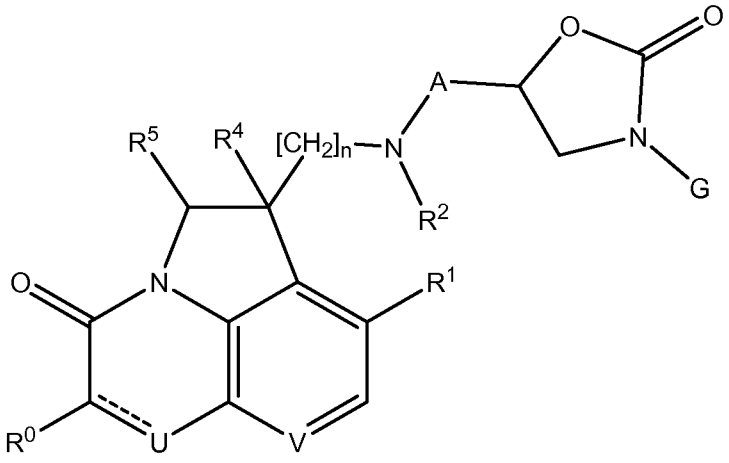
The present invention also includes isotopically labelled, especially ^{2}H (deuterium) labelled compounds of formula I, which compounds are identical to the compounds of formula I except that one or more atoms have each been replaced by an atom having the same atomic number but an atomic mass different from the atomic mass usually found in nature. Isotopically labelled, especially ^{2}H (deuterium) labelled compounds of formula I and salts thereof are within the scope of the present invention. Substitution of hydrogen with the heavier isotope ^{2}H (deuterium) may lead to greater metabolic stability, resulting e.g. in increased *in-vivo* half-life or reduced dosage requirements, or may lead to reduced inhibition of cytochrome P450 enzymes, resulting e.g. in an improved safety profile. In one variant of the invention, the compounds of formula I are not isotopically labelled, or they are labelled only with one or more deuterium atoms. In a sub-variant, the compounds of formula I are not isotopically labelled at all. Isotopically labelled compounds of formula I may be prepared in analogy to the methods described hereinafter, but using the appropriate isotopic variation of suitable reagents or starting materials.

The term "pharmaceutically acceptable salts" refers to non-toxic, inorganic or organic acid and/or base addition salts. Reference can be made to "Salt selection for basic drugs", *Int. J. Pharm.* (1986), **33**, 201-217.

Besides, the term "room temperature" as used herein refers to a temperature of 25°C.

Unless used regarding temperatures, the term "about" placed before a numerical value "X" refers in the current application to an interval extending from X minus 10% of X to X plus 10% of X, and preferably to an interval extending from X minus 5% of X to X plus 5% of X. In the particular case of temperatures, the term "about" placed before a temperature "Y" refers in the current application to an interval extending from the temperature Y minus 10°C to Y plus 10°C, and preferably to an interval extending from Y minus 5°C to Y plus 5°C.

ii) The invention relates notably to compounds of formula I according to embodiment i) that are also compounds of formula I_{P3}



I_{P3}

wherein

"-----" is a bond or is absent;

R^0 represents H or, in the case "-----" is a bond, may also represent (C_1-C_3)alkoxy (in particular methoxy);

R^1 represents H, halogen (notably F or Br), cyano or (C_1-C_3)alkyl (notably methyl);

U represents CH or N when "-----" is a bond, or, in case "----" is absent, U represents CH_2 or NH;

V represents CH, CR^6 or N;

R^2 represents H, $(C_1\text{-}C_3)$alkylcarbonyl or a group of the formula $–CH_2\text{-}R^3$;

R^3 represents H, $(C_1\text{-}C_3)$alkyl or $(C_1\text{-}C_3)$hydroxyalkyl;

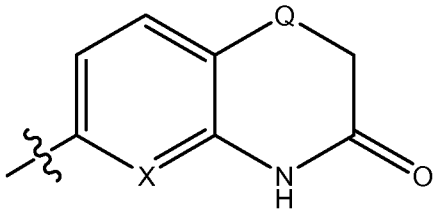
R^4 represents H or, in the cases wherein n is not 0 and R^5 is H, may also represent OH;

R^5 represents H, $(C_1\text{-}C_3)$alkyl (notably methyl), $(C_1\text{-}C_3)$hydroxyalkyl (notably hydroxymethyl), $(C_1\text{-}C_3)$alkoxy$(C_1\text{-}C_3)$alkyl (notably methoxymethyl) or $(C_1\text{-}C_3)$alkoxycarbonyl (notably methoxycarbonyl);

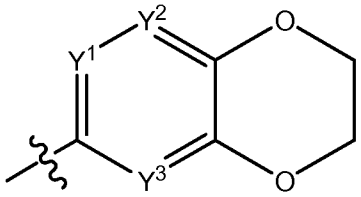
R^6 represents $(C_1\text{-}C_3)$hydroxyalkyl (notably hydroxymethyl), carboxy, $(C_1\text{-}C_3)$alkoxycarbonyl or a group $\text{-}(CH_2)_q\text{-}NR^7R^8$ wherein q is 1, 2 or 3 and each of R^7 and R^8 independently represents H or $(C_1\text{-}C_3)$alkyl or R^7 and R^8 form together with the nitrogen atom bearing them a pyrrolidinyl, piperidinyl, morpholinyl or thiomorpholinyl ring;

A represents $\text{-}(CH_2)_p\text{-}$, $\text{-}CH_2CH_2CH(OH)\text{-}$ or $\text{-}COCH_2CH(OH)\text{-}$;

G represents a phenyl group which is substituted once or twice in the meta and/or para position(s) by substituents selected independently from $(C_1\text{-}C_4)$alkyl, $(C_1\text{-}C_3)$alkoxy and a halogen (notably F), whereby a $(C_1\text{-}C_3)$alkoxy substituent is preferably a straight chain $(C_1\text{-}C_3)$alkoxy and in para position, or G is a group having one of the formulae G^1 and G^2 below



G^1



G^2

wherein

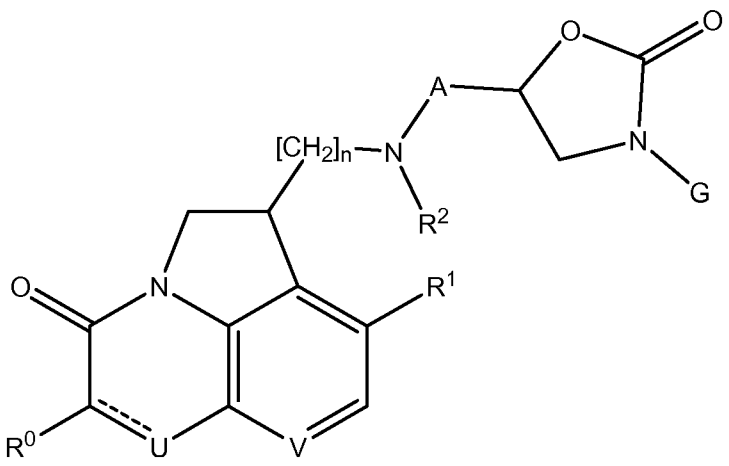
Q is O or S and X is CH or N; and

Y^1, Y^2 and Y^3 each represent CH, or Y^1 and Y^3 each represent CH and Y^2 represents N, or Y^1 represents N, Y^2 represents CH or N and Y^3 represents CH, or Y^1 and Y^2 each represent CH and Y^3 represents N; and

n is 0 when A represents $\text{-}CH_2CH_2CH(OH)\text{-}$ or $\text{-}COCH_2CH(OH)\text{-}$, and n is 0, 1 or 2 when A represents $(CH_2)_p$, p being 1, 2, 3 or 4, with the proviso that the sum of n and p is then 2, 3 or 4 (i.e. when n is 0, p is not 1, when n is 1, p is not 4 and when n is 2, p is neither 3 nor 4);

and to salts (in particular pharmaceutically acceptable salts) of compounds of formula I_{P3}.

iii) The invention furthermore relates notably to compounds of formula I according to embodiment i) or ii) that are also compounds of formula I_{P2}



I_{P2}

wherein

"-----" is a bond or is absent;

R^0 represents H or, in the case "-----" is a bond, may also represent (C_1-C_3)alkoxy (in particular methoxy);

R^1 represents H or halogen (notably F);

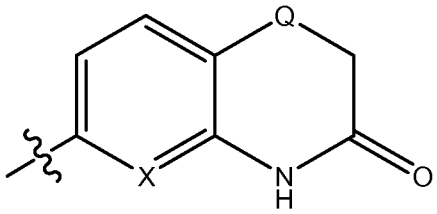
U represents CH or N when "-----" is a bond, or, in case "----" is absent, U represents CH_2 or NH;

V represents CH or N;

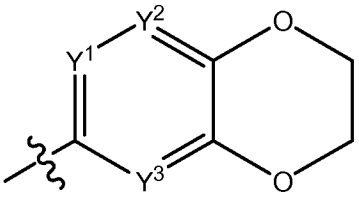
R^2 represents H or a group of the formula $-CH_2-R^3$, R^3 being hydrogen, (C_1-C_3)alkyl or (C_1-C_3)hydroxyalkyl;

A represents $-(CH_2)_p-$, $-CH_2CH_2CH(OH)-$ or $-COCH_2CH(OH)-$;

G represents a phenyl group which is substituted once or twice in the meta and/or para position(s) by substituents selected independently from (C_1-C_4)alkyl, (C_1-C_3)alkoxy and a halogen (notably F), whereby a (C_1-C_3)alkoxy substituent is preferably a straight chain (C_1-C_3)alkoxy and in para position, or G is a group having one of the formulae G^1 and G^2 below



G^1



G^2

wherein

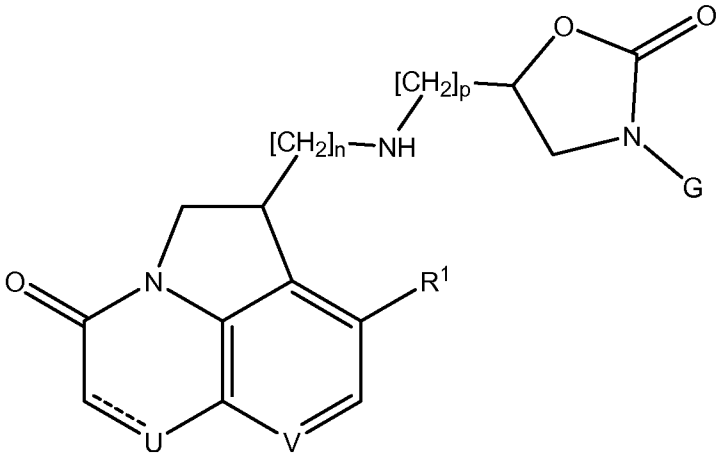
Q is O or S and X is CH or N; and

Y^1, Y^2 and Y^3 each represent CH, or Y^1 and Y^3 each represent CH and Y^2 represents N, or Y^1 represents N, Y^2 represents CH or N and Y^3 represents CH, or Y^1 and Y^2 each represent CH and Y^3 represents N; and

n is 0 when A represents $-CH_2CH_2CH(OH)-$ or $-COCH_2CH(OH)-$, and n is 0, 1 or 2 when A represents $(CH_2)_p$, p being 1, 2, 3 or 4, with the proviso that the sum of n and p is then 2, 3 or 4 (i.e. when n is 0, p is not 1, when n is 1, p is not 4 and when n is 2, p is neither 3 nor 4);

and to salts (in particular pharmaceutically acceptable salts) of compounds of formula I_{P2}.

iv) The invention yet relates to compounds of formula I as defined in embodiment i), ii) or iii) that are also compounds of formula I_{P1}



I_{P1}

wherein

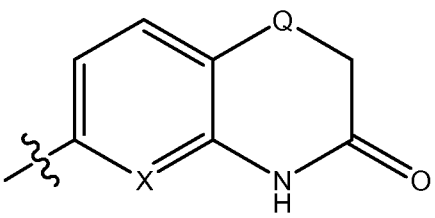
"-----" is a bond or is absent;

R^1 represents H or halogen (notably F);

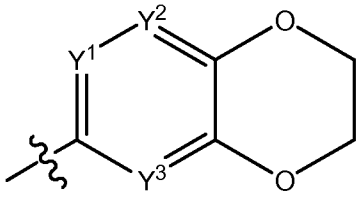
V represents CH or N;

U represents CH or N, or, in case "----" is absent, U represents CH_2 or NH;

G represents a phenyl group which is substituted once or twice in the meta and/or para position(s) by substituents selected independently from $(C_1\text{-}C_4)$alkyl, $(C_1\text{-}C_3)$alkoxy and a halogen (notably F), whereby a $(C_1\text{-}C_3)$alkoxy substituent is preferably a straight chain $(C_1\text{-}C_3)$alkoxy and in para position, or G is a group having one of the formulae G^1 and G^2 below



G^1



G^2

wherein

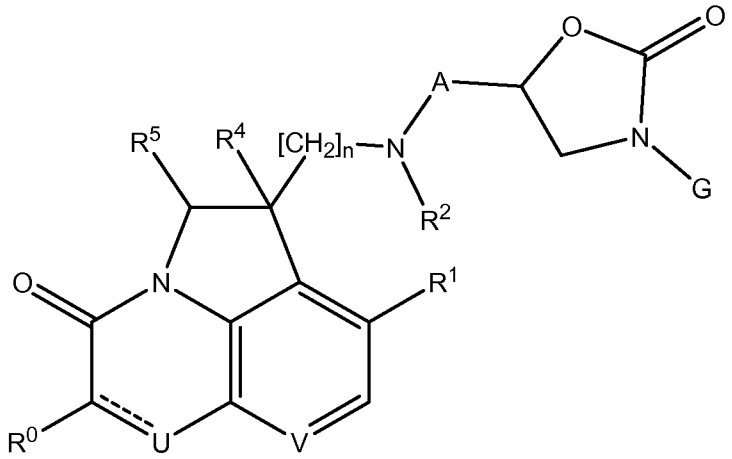
Q is O or S and X is CH or N; and

Y^1, Y^2 and Y^3 each represent CH, or Y^1 and Y^3 each represent CH and Y^2 represents N, or Y^1 represents N, Y^2 represents CH or N and Y^3 represents CH, or Y^1 and Y^2 each represent CH and Y^3 represents N; and

n is 0, 1 or 2 and p is 1, 2 or 3, with the proviso that the sum of n and p is either 2 or 3 (i.e. when n is 0, p is 2 or 3, when n is 1, p is 1 or 2 and when n is 2, p is 1);

and to salts (in particular pharmaceutically acceptable salts) of compounds of formula I_P.

v) In particular, the invention relates to compounds of formula I as defined in embodiment i) that are also compounds of formula I_{CE}



I_{CE}

wherein

"-----" is a bond, V represents CH and U represents CH or N, or "-----" is a bond, V represents CR^6 and U represents CH, or also "-----" is a bond, V represents N and U represents CH, or

"-----" is absent, V represents CH and U represents CH_2, NH or NR^9;

R^0 represents H or, in the case "-----" is a bond, may also represent (C_1-C_3)alkoxy (in particular methoxy);

R^1 represents H, halogen (notably F, Cl or Br), cyano, (C_1-C_3)alkyl (notably methyl) or ethynyl;

V represents CH, CR^6 or N;

R^2 represents H, acetyl or a group of the formula $-CH_2-R^3$;

R^3 represents hydrogen, (C_1-C_3)alkyl or (C_1-C_3)hydroxyalkyl;

R^4 represents H or, in the cases wherein n is not 0 and R^5 is H, may also represent OH;

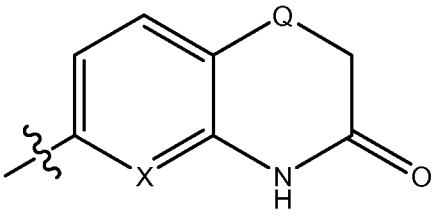
R^5 represents H, (C_1-C_3)alkyl (notably methyl), (C_1-C_3)hydroxyalkyl (notably hydroxymethyl), (C_1-C_3)aminoalkyl (notably aminomethyl), (C_1-C_3)alkoxy(C_1-C_3)alkyl (notably methoxymethyl), carboxy or (C_1-C_3)alkoxycarbonyl (notably methoxycarbonyl);

R^6 represents $(C_1$-$C_3)$hydroxyalkyl (notably hydroxymethyl), carboxy, $(C_1$-$C_3)$alkoxycarbonyl or a group $-(CH_2)_q$-NR^7R^8 wherein q is 1, 2 or 3 (notably 1) and each of R^7 and R^8 independently represents H or $(C_1$-$C_3)$alkyl or R^7 and R^8 form together with the nitrogen atom bearing them a pyrrolidinyl or piperidinyl ring (notably a pyrrolidinyl ring);

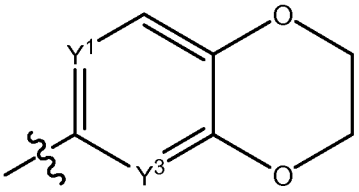
R^9 represents $(C_1$-$C_3)$alkyl (notably methyl), 2-hydroxy-ethyl, 2-hydroxy-propyl or 3-hydroxy-propyl;

A represents $-(CH_2)_p$-, $-CH_2CH_2CH(OH)$- or $-COCH_2CH(OH)$-;

G represents a phenyl group which is substituted once or twice in the meta and/or para position(s) by substituents selected independently from $(C_1$-$C_4)$alkyl, $(C_1$-$C_3)$alkoxy and a halogen (notably F), whereby a $(C_1$-$C_3)$alkoxy substituent is preferably a straight chain $(C_1$-$C_3)$alkoxy and in para position, or G is a group having one of the formulae G^1 and $G^{2'}$ below



G^1



$G^{2'}$

wherein

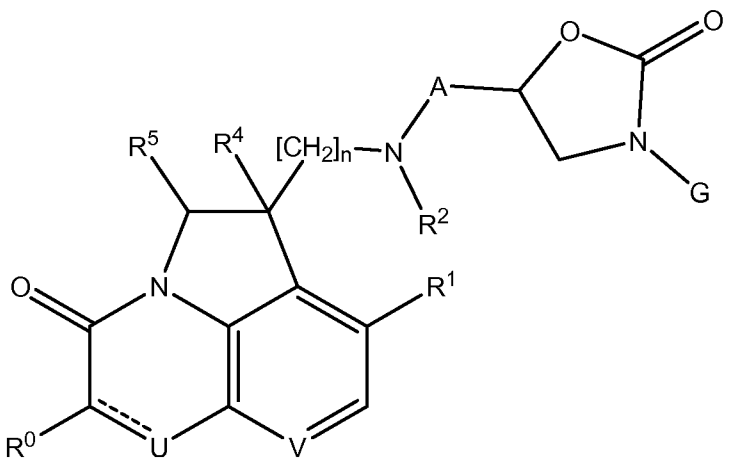
Q is O or S and X is CH or N; and

each of Y^1 and Y^3 represents CH, or one of Y^1 and Y^3 represents N and the other represents CH; and

n is 0 when A represents $-CH_2CH_2CH(OH)$- or $-COCH_2CH(OH)$-, and n is 0, 1 or 2 when A represents $(CH_2)_p$, p being 1, 2, 3 or 4, with the proviso that the sum of n and p is then 2, 3 or 4 (i.e. when n is 0, p is not 1, when n is 1, p is not 4 and when n is 2, p is neither 3 nor 4);

and to salts (in particular pharmaceutically acceptable salts) of compounds of formula I_{CE}.

vi) Also in particular, the invention relates to compounds of formula I as defined in embodiment i), ii) or v) that are also compounds of formula I_{CEP3}



I_{CEP3}

wherein

"-----" is a bond, V represents CH and U represents CH or N, or "-----" is a bond, V represents CR^6 and U represents CH, or also "-----" is a bond, V represents N and U represents CH, or

"-----" is absent, V represents CH and U represents CH_2 or NH;

R^0 represents H or, in the case "-----" is a bond, may also represent $(C_1\text{-}C_3)$alkoxy (in particular methoxy);

R^1 represents H, halogen (notably F or Br), cyano or $(C_1\text{-}C_3)$alkyl (notably methyl);

V represents CH, CR^6 or N;

R^2 represents H, acetyl or a group of the formula $-CH_2\text{-}R^3$;

R^3 represents hydrogen, $(C_1\text{-}C_3)$alkyl or $(C_1\text{-}C_3)$hydroxyalkyl;

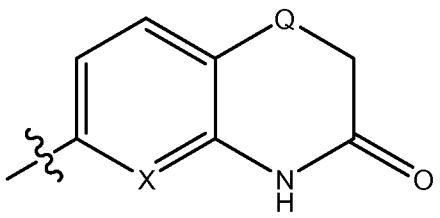
R^4 represents H or, in the cases wherein n is not 0 and R^5 is H, may also represent OH;

R^5 represents H, $(C_1\text{-}C_3)$alkyl (notably methyl), $(C_1\text{-}C_3)$hydroxyalkyl (notably hydroxymethyl), $(C_1\text{-}C_3)$alkoxy$(C_1\text{-}C_3)$alkyl (notably methoxymethyl) or $(C_1\text{-}C_3)$alkoxycarbonyl (notably methoxycarbonyl);

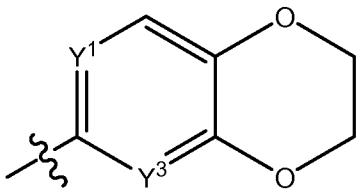
R^6 represents $(C_1\text{-}C_3)$hydroxyalkyl (notably hydroxymethyl), carboxy, $(C_1\text{-}C_3)$alkoxycarbonyl or a group $-(CH_2)_q\text{-}NR^7R^8$ wherein q is 1, 2 or 3 (notably 1) and each of R^7 and R^8 independently represents H or $(C_1\text{-}C_3)$alkyl or R^7 and R^8 form together with the nitrogen atom bearing them a pyrrolidinyl or piperidinyl ring (notably a pyrrolidinyl ring);

A represents $-(CH_2)_p$-, $-CH_2CH_2CH(OH)$- or $-COCH_2CH(OH)$-;

G represents a phenyl group which is substituted once or twice in the meta and/or para position(s) by substituents selected independently from (C_1-C_4)alkyl, (C_1-C_3)alkoxy and a halogen (notably F), whereby a (C_1-C_3)alkoxy substituent is preferably a straight chain (C_1-C_3)alkoxy and in para position, or G is a group having one of the formulae G^1 and $G^{2'}$ below



G^1



$G^{2'}$

wherein

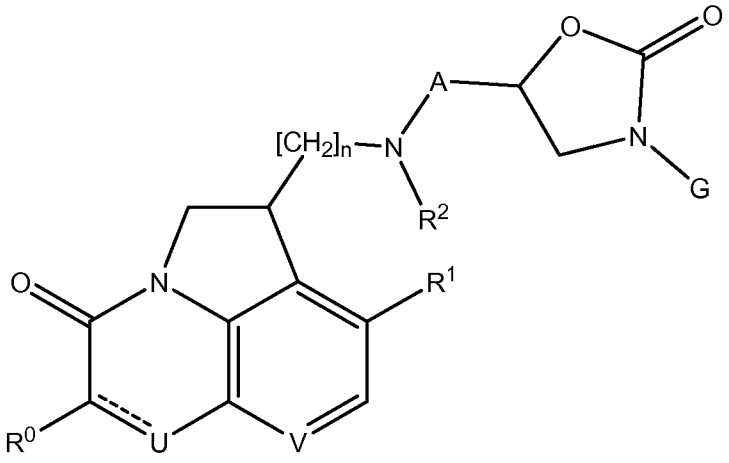
Q is O or S and X is CH or N; and

each of Y^1 and Y^3 represents CH, or one of Y^1 and Y^3 represents N and the other represents CH; and

n is 0 when A represents $-CH_2CH_2CH(OH)-$ or $-COCH_2CH(OH)-$, and n is 0, 1 or 2 when A represents $(CH_2)_p$, p being 1, 2, 3 or 4, with the proviso that the sum of n and p is then 2, 3 or 4 (i.e. when n is 0, p is not 1, when n is 1, p is not 4 and when n is 2, p is neither 3 nor 4);

and to salts (in particular pharmaceutically acceptable salts) of compounds of formula I_{CE}.

vii) The invention furthermore relates to compounds of formula I as defined in embodiment i), ii), iii), v) or vi) that are also compounds of formula I_{CEP2}



I_{CEP2}

wherein

"-----" is a bond, V represents CH and U represents CH or N or V represents N and U represents CH, or "-----" is absent, V represents CH and U represents CH_2 or NH;

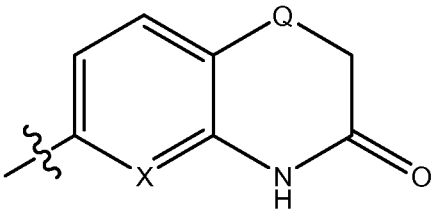
R^0 represents H or, in the case "-----" is a bond, may also represent $(C_1\text{-}C_3)$alkoxy (in particular methoxy);

R^1 represents H or halogen (notably F);

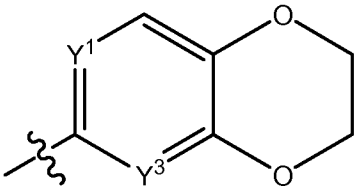
R^2 represents H or a group of the formula $-CH_2\text{-}R^3$, R^3 being $(C_1\text{-}C_3)$hydroxyalkyl;

A represents $-(CH_2)_p-$, $-CH_2CH_2CH(OH)-$ or $-COCH_2CH(OH)-$;

G represents a phenyl group which is substituted once in a meta position and once in the para position by substituents selected independently from $(C_1\text{-}C_4)$alkyl and a halogen (notably F), G represents a phenyl group which is substituted in the para position by a substituent selected from $(C_1\text{-}C_4)$alkyl and $(C_1\text{-}C_3)$alkoxy, or also G is a group having one of the formulae G^1 and $G^{2'}$ below



G^1



$G^{2'}$

wherein

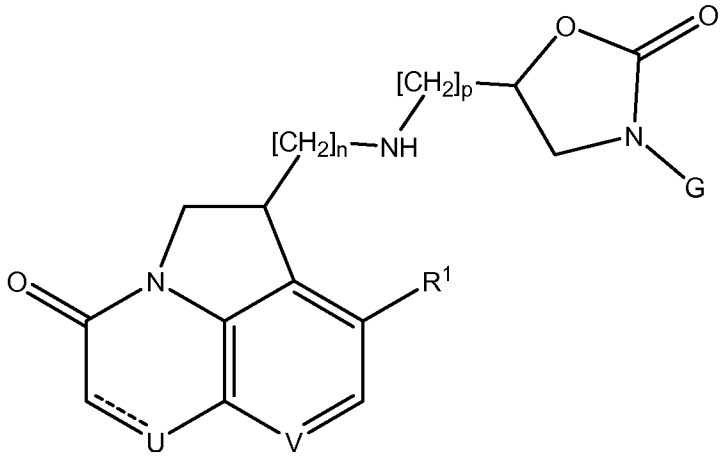
X represents CH or N and Q represents O or S;

each of Y^1 and Y^3 represents CH, or one of Y^1 and Y^3 represents N and the other represents CH;

n is 0 when A represents $-CH_2CH_2CH(OH)-$ or $-COCH_2CH(OH)-$, and n is 0, 1 or 2 when A represents $(CH_2)_p$, p being 1, 2, 3 or 4, with the provisos that when n is 0, p is 2 or 3, when n is 1, p is 1, 2 or 3 and when n is 2, p is 1;

and to salts (in particular pharmaceutically acceptable salts) of compounds of formula I_{CEP2}.

viii) The invention yet relates to compounds of formula I as defined in one of embodiments i) to vii) that are also compounds of formula I_{CEP1}



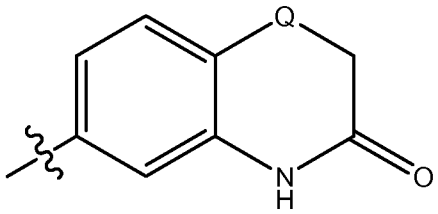
I_{CEP1}

wherein

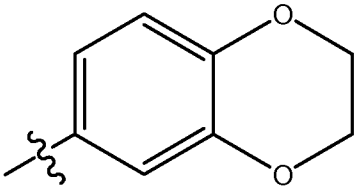
R^1 represents H or halogen (notably F);

"-----" is a bond, V represents CH and U represents CH or N or V represents N and U represents CH, or "-----" is absent, V represents CH and U represents CH_2;

G represents a phenyl group which is substituted once in a meta position and once in the para position by substituents selected independently from (C_1-C_4)alkyl and a halogen (notably F), or G is a group having one of the formulae $G^{1'}$ and $G^{2'}$ below



$G^{1'}$



$G^{2'}$

wherein Q represents O or S;

n is 0, 1 or 2 and p is 1, 2 or 3, with the proviso that the sum of n and p is either 2 or 3 (i.e. when n is 0, p is 2 or 3, when n is 1, p is 1 or 2 and when n is 2, p is 1);

and to salts (in particular pharmaceutically acceptable salts) of compounds of formula I_{CEP1}.

ix) According to one main variant of this invention, the compounds of formula I as defined in one of embodiments i) to viii) above will be such that R^1 represents halogen (notably F, Cl or Br, preferably F or Br and in particular F).

x) According to another main variant of this invention, the compounds of formula I as defined in one of embodiments i) to viii) above will be such that R^1 represents H.

xi) According to a further main variant of this invention, the compounds of formula I as defined in embodiment i), ii), v) or vi) above will be such that R^1 represents $(C_1\text{-}C_3)$alkyl (notably methyl).

xii) According to yet a further main variant of this invention, the compounds of formula I as defined in embodiment i) or v) above will be such that R^1 represents ethynyl.

xiii) One main embodiment of this invention relates to the compounds of formula I as defined in one of embodiments i) to xii) above wherein V represents CH (and notably to compounds of formula I as defined in embodiment iv) or viii) wherein V represents CH and R^1 represents fluorine).

xiv) Another main embodiment of this invention relates to the compounds of formula I as defined in one of embodiments i) to xii) above wherein V represents N (and notably to compounds of formula I as defined in embodiment iv) or viii) wherein V represents N and R^1 represents fluorine).

xv) A further main embodiment of this invention relates to the compounds of formula I as defined in embodiment i), ii), v) or vi) above wherein V represents CR^6.

xvi) According to one sub-embodiment of embodiment xv) above, R^6 will represent $(C_1\text{-}C_3)$hydroxyalkyl (notably hydroxymethyl).

xvii) According to another sub-embodiment of embodiment xv) above, R^6 will represent carboxy.

xviii) According to yet another sub-embodiment of embodiment xv) above, R^6 will represent $(C_1\text{-}C_3)$alkoxycarbonyl (notably ethoxycarbonyl).

xix) According to a further sub-embodiment of embodiment xv) above, R^6 will represent a group $-(CH_2)_q-NR^7R^8$ wherein q is 1, 2 or 3 (in particular 1) and each of R^7 and R^8 independently represents H or (C_1-C_3)alkyl or R^7 and R^8 form together with the nitrogen atom bearing them a pyrrolidinyl, piperidinyl, morpholinyl or thiomorpholinyl ring, and in particular a pyrrolidinyl or piperidinyl ring (such a group $-(CH_2)_q-NR^7R^8$ being notably dimethylaminomethyl or pyrrolidin-1-ylmethyl).

xx) A further embodiment of this invention relates to the compounds of formula I as defined in one of embodiments i) to xix) above wherein "-----" is a bond; such embodiment thus notably relates to compounds of formula I as defined in embodiment iv) or viii) wherein "-----" is a bond and:

- R^1 represents fluorine, or
- R^1 represents fluorine and V represents CH, or
- R^1 represents fluorine and V represents N.

xxi) One sub-embodiment of embodiment xx) above relates to the compounds of formula I as defined in embodiment xx) above wherein U represents CH (and notably to the compounds of formula I as defined in embodiment xiv) above wherein U represents CH and R^0 represents H).

xxii) Another sub-embodiment of embodiment xx) above relates to the compounds of formula I as defined in embodiment xx) above wherein U represents N.

xxiii) According to one variant of sub-embodiment xxii), the compounds of formula I as defined in embodiment xxii) above will be such that R^0 represents H (and notably such that R^0 represents H and V represents CH).

xxiv) According to the other variant of sub-embodiment xxii), the compounds of formula I as defined in embodiment xxii) above will be such that R^0 represents (C_1-C_3)alkoxy (and in particular methoxy); this particular variant relates notably to compounds of formula I as defined in one of embodiments i) to iii) or v) to vii) wherein R^0 represents (C_1-C_3)alkoxy (and in particular methoxy) and:

- R^1 represents halogen (and preferably F), or
- R^1 represents H, or
- R^1 represents halogen (and preferably F) and V represents CH, or

- R^1 represents halogen (and preferably F) and V represents N, or
- R^1 represents H and V represents CH, or
- R^1 represents H and V represents N, or
- V represents CH, or
- V represents N.

xxv) Yet a further embodiment of this invention relates to the compounds of formula I as defined in one of embodiments i) to xix) above wherein "-----" is absent and U represents CH_2 or NH (notably CH_2); such embodiment thus notably to compounds of formula I as defined in embodiment iv) or viii) wherein "-----" is absent, U represents CH_2 and:

- R^1 represents fluorine, or
- R^1 represents fluorine and V represents CH, or
- R^1 represents fluorine and V represents N, or
- V represents CH, or
- V represents N.

xxvi) One particular embodiment of this invention relates to the compounds of formula I as defined in embodiment i), ii), v) or vi), or as defined in embodiment i), ii), v) or vi) taken together with any of embodiments ix) to xxv), wherein R^4 represents H.

xxvii) One sub-embodiment of embodiment xxvi) relates to compounds of formula I as defined in embodiment xxvi) wherein each of R^4 and R^5 represents H.

xxviii) Another particular embodiment of this invention relates to the compounds of formula I as defined in embodiment i), ii), v) or vi), or as defined in embodiment i), ii), v) or vi) taken together with any of embodiments ix) to xxv), wherein n is 1 or 2, R^4 represents OH and R^5 represents H.

xxix) Yet another particular embodiment of this invention relates to the compounds of formula I as defined in embodiment i) or v), or as defined in embodiment i) or v) taken together with any of embodiments ix) to xxv), wherein R^5 represents (C_1-C_3)alkyl (notably methyl), (C_1-C_3)hydroxyalkyl (notably hydroxymethyl), (C_1-C_3)aminoalkyl (notably aminomethyl), (C_1-C_3)alkoxy(C_1-C_3)alkyl (notably methoxymethyl), carboxy or (C_1-C_3)alkoxycarbonyl (notably methoxycarbonyl).

xxx) In particular, the compounds of formula I as defined in embodiment xxix) will be compounds of formula I as defined in embodiment ii) or vi), or as defined in embodiment ii) or vi) taken together with any of embodiments ix) to xxv), wherein R^5 represents (C_1-C_3)alkyl (notably methyl), (C_1-C_3)hydroxyalkyl (notably hydroxymethyl), (C_1-C_3)alkoxy(C_1-C_3)alkyl (notably methoxymethyl) or (C_1-C_3)alkoxycarbonyl (notably methoxycarbonyl).

xxxi) According to one variant of embodiment xxix) or xxx), R^5 will represent (C_1-C_3)alkyl (notably methyl).

xxxii) According to another variant of embodiment xxix) or xxx), R^5 will represent (C_1-C_3)hydroxyalkyl (notably hydroxymethyl or 1-hydroxy-1-methyl-ethyl and in particular hydroxymethyl).

xxxiii) According to yet another variant of embodiment xxix) or xxx), R^5 will represent (C_1-C_3)alkoxy(C_1-C_3)alkyl (notably methoxymethyl).

xxxiv) According to a further variant of embodiment xxix), R^5 will represent (C_1-C_3)alkoxycarbonyl (notably methoxycarbonyl).

xxxv) According to yet a further variant of embodiment xxix), R^5 will represent (C_1-C_3)aminoalkyl (notably aminomethyl).

xxxvi) According to yet a further variant of embodiment xxix), R^5 will represent carboxy.

xxxvii) According to one main variant of this invention, the compounds of formula I as defined in one of embodiments i) to xxxvi) will be such that A represents -$(CH_2)_p$- (whereby in such case the compounds of formula I wherein n is 0 and p is 2 or 3, or n is 1 and p is 1, 2 or 3, or n is 2 and p is 1 will in a general manner be preferred).

xxxviii) According to one sub-embodiment of embodiment xxxvii), the compounds of formula I as defined in embodiment xxxvii) will be such that the sum of n and p is 2.

xxxix) According to one variant of embodiment xxxviii), the compounds of formula I will be such that n is 0 and p is 2.

xl) According to another variant of embodiment xxxviii), the compounds of formula I will be such that n is 1 and p is 1.

xli) According to another sub-embodiment of embodiment xxxvii), the compounds of formula I as defined in embodiment xxxvii) will be such that the sum of n and p is 3 (and notably such that the sum of n and p is 3, each of R^0, R^4 and R^5 represents H and G is a group of the formula G^1 or G^2 as defined in embodiment i), ii) or iii)).

xlii) According to one variant of embodiment xli), the compounds of formula I will be such that n is 0 and p is 3.

xliii) The compounds of formula I as defined in embodiment xlii) will notably be such that "-----" is a bond, each of R^0, R^4 and R^5 represents H, R^1 represents H or F (in particular F), V represents CH, U represents CH or N and G is a group of the formula G^1 or G^2 as defined in embodiment i), ii) or iii) (and in particular a group of the formula G^1 as defined in embodiment i), ii) or iii), notably such a group of the formula G^1 wherein X is CH and Q is S).

xliv) According to another variant of embodiment xli), the compounds of formula I will be such that n is 1 and p is 2.

xlv) The compounds of formula I as defined in embodiment xliv) will notably be such that "-----" is a bond, each of R^0, R^4 and R^5 represents H, R^1 represents H or F (in particular F), V represents CH, U represents CH or N and G is a group of the formula G^1 or G^2 as defined in embodiment i), ii) or iii) (and in particular a group of the formula G^1 as defined in embodiment i) , ii) or iii), notably such a group of the formula G^1 wherein X is CH and Q is S).

xlvi) According to yet another variant of embodiment xli), the compounds of formula I will be such that n is 2 and p is 1.

xlvii) The compounds of formula I as defined in embodiment xlvi) will notably be such that "-----" is a bond, each of R^0, R^4 and R^5 represents H, R^1 represents H or F (in particular F), V represents CH, U represents CH or N and G is a group of the formula G^1 or G^2 as defined in embodiment i) , ii) or iii) (and in particular a group of the formula G^1 as

defined in embodiment i) , ii) or iii), notably such a group of the formula G^1 wherein X is CH and Q is S).

xlviii) According to another sub-embodiment of embodiment xxxvii), the compounds of formula I as defined in embodiment xxxvii) will be such that the sum of n and p is 4.

il) According to one variant of embodiment xlviii), the compounds of formula I will be such that n is 0 and p is 4.

l) According to another variant of embodiment xlviii), the compounds of formula I will be such that n is 1 and p is 3.

li) According to yet another variant of embodiment xlviii), the compounds of formula I will be such that n is 2 and p is 2.

lii) Another main variant of this invention relates to the compounds of formula I as defined in embodiment i), ii), iii), v), vi) or vii) wherein A represents $-CH_2CH_2CH(OH)-$, or to the compounds of formula I as defined in embodiment i), ii), iii), v), vi) or vii) taken together with any of embodiments ix) to xxxvi) wherein A represents $-CH_2CH_2CH(OH)-$.

liii) Yet another main variant of this invention relates to the compounds of formula I as defined in embodiment i), ii), iii), v), vi) or vii) wherein A represents $-COCH_2CH(OH)-$, or to the compounds of formula I as defined in embodiment i), ii), iii), v), vi) or vii) taken together with any of embodiments vii) to xxxvi) wherein A represents $-COCH_2CH(OH)-$.

liv) A further embodiment of this invention relates to the compounds of formula I as defined in embodiment i), ii), iii), v), vi) or vii) wherein R^2 represents H, or to the compounds of formula I as defined in embodiment i), ii), iii), v), vi) or vii) taken together with any of embodiments ix) to liii) wherein R^2 represents H.

lv) Yet a further embodiment of this invention relates to the compounds of formula I as defined in embodiment i), ii), iii), v), vi) or vii) wherein R^2 represents a group of the formula $-CH_2-R^3$, R^3 being hydrogen, (C_1-C_3)alkyl or (C_1-C_3)hydroxyalkyl, or to the compounds of formula I as defined in embodiment i), ii), iii), v), vi) or vii) taken together with any of embodiments ix) to liii) wherein R^2 represents a group of the formula $-CH_2-R^3$, R^3 being hydrogen, (C_1-C_3)alkyl or (C_1-C_3)hydroxyalkyl (and in particular to the

compounds of formula I as defined in embodiment iii) or vii) wherein R^2 represents a group of the formula $-CH_2-R^3$, R^3 being (C_1-C_3)alkyl or (C_1-C_3)hydroxyalkyl, or to the compounds of formula I as defined in embodiment iii) or vii) taken together with any of embodiments ix), x), xiii), xiv), xx) to xxv) and xxxvii) to liii) wherein R^2 represents a group of the formula $-CH_2-R^3$, R^3 being (C_1-C_3)alkyl or (C_1-C_3)hydroxyalkyl).

lvi) According to one variant of embodiment lv), the compounds of formula I as defined in embodiment lv) will be such that R^2 represents a group of the formula $-CH_2-R^3$ wherein R^3 is hydrogen or (C_1-C_3)alkyl.

lvii) According to another variant of embodiment lv), the compounds of formula I as defined in embodiment lv) will be such that R^2 represents a group of the formula $-CH_2-R^3$ wherein R^3 is (C_1-C_3)hydroxyalkyl (in particular such that R^2 represents a group 2-hydroxy-ethyl or 3-hydroxy-propyl).

lviii) Yet a further embodiment of this invention relates to the compounds of formula I as defined in embodiment i), ii), v) or vi) wherein R^2 represents (C_1-C_3)alkylcarbonyl (notably acetyl), or to the compounds of formula I as defined in embodiment i), ii), v) or vi) taken together with any of embodiments ix) to liii) wherein R^2 represents (C_1-C_3)alkylcarbonyl (notably acetyl).

lix) According to one particular embodiment of this invention, the compounds of formula I as defined in embodiments i) to lviii) above will be such that G represents a group of the formula G^1, or, in the embodiments referring to embodiment viii), the group $G^{1'}$.

lx) Preferably, the compounds of formula I as defined in embodiment lix) above will be such that X, if present, represents CH (that is, G represents 3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl or 3-oxo-3,4-dihydro-2*H*-benzo[1,4]oxazin-6-yl); a particular sub-embodiment of this embodiment will relate to compounds of formula I as defined in embodiment iv) or viii) wherein G represents 3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl or 3-oxo-3,4-dihydro-2*H*-benzo[1,4]oxazin-6-yl and:

- R^1 represents fluorine, or
- V represents CH, or
- V represents N, or
- R^1 represents fluorine and V represents CH, or

- R^1 represents fluorine and V represents N, or
- R^1 represents fluorine and "-----" is a bond, or
- R^1 represents fluorine, "-----" is a bond and V represents CH,
- R^1 represents fluorine, "-----" is a bond and V represents N,
- "-----" is absent and U represents CH_2, or
- R^1 represents fluorine, "-----" is absent and U represents CH_2, or
- R^1 represents fluorine, V represents CH, "-----" is absent and U represents CH_2, or
- R^1 represents fluorine, V represents N, "-----" is absent and U represents CH_2.

lxi) According to another particular embodiment of this invention, the compounds of formula I as defined in embodiments i) to lviii) above will be such that G represents a group of the formula G^2, or, in the embodiments referring to embodiment v), vi), vii) or viii), the group $G^{2'}$.

lxii) According to a variant of embodiment lxi), the compounds of formula I as defined in embodiment lxi) above will be such that either each of Y^1, Y^2 and Y^3, if present, represents CH, or one of Y^1 and Y^3, if present, represents N and Y^2 and the other of Y^1 and Y^3, if present, each represent CH (that is, G represents 2,3-dihydro-[1,4]dioxino[2,3-*c*]pyridin-7-yl, 2,3-dihydro-[1,4]dioxino[2,3-*b*]pyridin-6-yl or 2,3-dihydro-benzo[1,4]dioxin-6-yl).

lxiii) Preferably, the compounds of formula I as defined in embodiment lxii) above will be such that each of Y^1, Y^2 and Y^3, if present, represents CH (that is, G represents 2,3-dihydro-benzo[1,4]dioxin-6-yl).

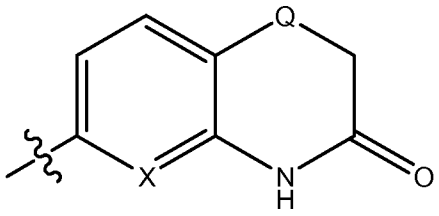
lxiv) According to yet another particular embodiment of this invention, the compounds of formula I as defined in embodiments i) to lviii) above will be such that G represents a phenyl group which is substituted once or twice in the meta and/or para position(s) by substituents selected independently from (C_1-C_4)alkyl, (C_1-C_3)alkoxy and a halogen (notably F), whereby a (C_1-C_3)alkoxy substituent, if present, is preferably a straight chain (C_1-C_3)alkoxy and in para position, or, in the embodiments referring to embodiment vii) or viii), such that G represents a phenyl group which is substituted once in a meta position and once in the para position by substituents selected independently from (C_1-C_4)alkyl and a halogen (notably F).

lxv) Preferably, the compounds of formula I as defined in embodiment lxiv) above will be such that G represents a phenyl group which is substituted once or twice in the meta and/or para position(s) by substituents selected independently from methyl, ethyl, methoxy, ethoxy and halogen (notably F), whereby a methoxy or ethoxy substituent, if present, is in para position, or, in the embodiments referring to embodiment vii) or viii), such that G represents a phenyl group which is substituted once in a meta position and once in the para position by substituents selected independently from methyl and fluorine.

lxvi) In particular, the compounds of formula I as defined in embodiment lxiv) or lxv) above will be such that G represents 3-fluoro-4-methyl-phenyl.

lxvii) Yet a further embodiment of this invention relates to compounds of formula I as defined in embodiment i), ii), v) or vi) wherein:

- "-----" is a bond, V represents CH and U represents CH or N, or "-----" is absent and U represents NH;
- R^0 represents H or, in the case "-----" is a bond, may also represent (C_1-C_3)alkoxy (in particular methoxy);
- R^1 represents H or halogen (notably H, F or Br, and in particular H or F);
- R^2 represents H;
- each of R^4 and R^5 represents H;
- n is 0;
- A represents -$(CH_2)_p$-, p being 3;
- G is a group having the formula G^1 below



G^1

wherein X is CH or N and Q is O or S;

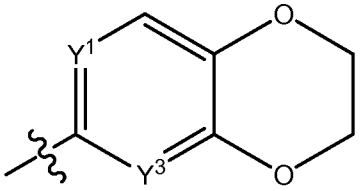
and to salts (in particular pharmaceutically acceptable salts) of such compounds.

lxviii) According to one sub-embodiment of embodiment lxvii), the compounds of formula I as defined in embodiment lxiv) will be such that "-----" is a bond, V represents CH and U represents CH or N.

lxix) According to another sub-embodiment of embodiment lxvii), the compounds of formula I as defined in embodiment lxiv) will be such that "-----" is absent and U represents NH.

lxx) Yet a further embodiment of this invention relates to compounds of formula I as defined in embodiment i), ii), v) or vi) wherein:

- "-----" is a bond, V represents CH and U represents CH or N, or "-----" is absent and U represents NH;
- R^0 represents H or, in the case "-----" is a bond, may also represent (C_1-C_3)alkoxy (in particular methoxy);
- R^1 represents H or halogen (notably F or Br, in particular F);
- R^2 represents H;
- R^4 represents H;
- R^5 represents H, (C_1-C_3)alkyl (notably methyl), (C_1-C_3)hydroxyalkyl (notably hydroxymethyl), (C_1-C_3)alkoxy(C_1-C_3)alkyl (notably methoxymethyl) or (C_1-C_3)alkoxycarbonyl (notably acetyl);
- n is 0;
- A represents -$(CH_2)_p$-, p being 3; and
- G is a group having the formula $G^{2'}$ below



$G^{2'}$

wherein each of Y^1 and Y^3 represents CH, or one of Y^1 and Y^3 represents N and the other represents CH (and in particular wherein each of Y^1 and Y^3 represents CH);

and to salts (in particular pharmaceutically acceptable salts) of such compounds.

lxxi) According to one sub-embodiment of embodiment lxx), the compounds of formula I as defined in embodiment lxx) will be such that "-----" is a bond, V represents CH and U represents CH or N.

lxxii) According to another sub-embodiment of embodiment lxx), the compounds of formula I as defined in embodiment lxx) will be such that "-----" is absent and U represents NH.

lxxiii) One main embodiment of this invention relates to the compounds of formula I as defined in one of embodiments i) to xxvii) or xxix) to xxxvii), and in particular according to embodiment i) or v)),wherein n is 0 (and notably wherein n is 0, A represents $(CH_2)_p$ and p is 2 or 3).

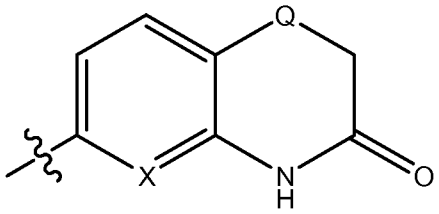
lxxiv) Another main embodiment of this invention relates to the compounds of formula I as defined in one of embodiments i) to xxvii) or xxix) to xxxvii), and in particular according to embodiment i) or v)),wherein n is 1 (and notably wherein n is 1, A represents $(CH_2)_p$ and p is 1 or 2).

lxxv) Yet another main embodiment of this invention relates to the compounds of formula I as defined in one of embodiments i) to xxvii) or xxix) to xxxvii), and in particular according to embodiment i) or v)),wherein n is 2 (and notably wherein n is 2, A represents $(CH_2)_p$ and p is 1 or 2).

lxxvi) Yet a further embodiment of this invention relates to the compounds of formula I as defined in embodiment i) or v) wherein:

- "-----" is a bond and V represents CH and U represents CH or N or V represents N and U represents CH;
- R^0 represents H;
- R^1 represents H or fluorine (in particular fluorine);
- R^2 represents H;
- R^4 represents H;
- R^5 represents H, methyl, hydroxymethyl or aminomethyl (and in particular H);
- n is 0 and A represents $-(CH_2)_p-$ wherein p is 2, 3 or 4, or n is 1 and A represents $-(CH_2)_p-$ wherein p is 1, 2 or 3; and

- G is a group having the formula G^1 below



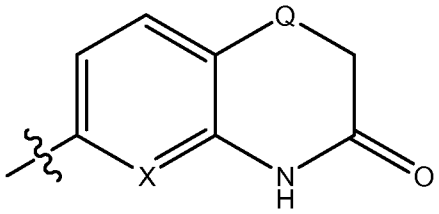
G^1

wherein X is CH or N and Q is O or S;

and to salts (in particular pharmaceutically acceptable salts) of such compounds.

lxxvii) Yet another embodiment of this invention relates to compounds of formula I as defined in embodiment i) or v) wherein:

- "-----" is absent and U represents NH or NR^9 wherein R^9 is methyl (and in particular NH);
- R^0 represents H;
- R^1 represents H or fluorine (in particular fluorine);
- R^2 represents H;
- each of R^4 and R^5 represents H;
- n is 0 and A represents $-(CH_2)_p-$ wherein p is 2, 3 or 4, or n is 1 and A represents $-(CH_2)_p-$ wherein p is 1, 2 or 3; and
- G is a group having the formula G^1 below

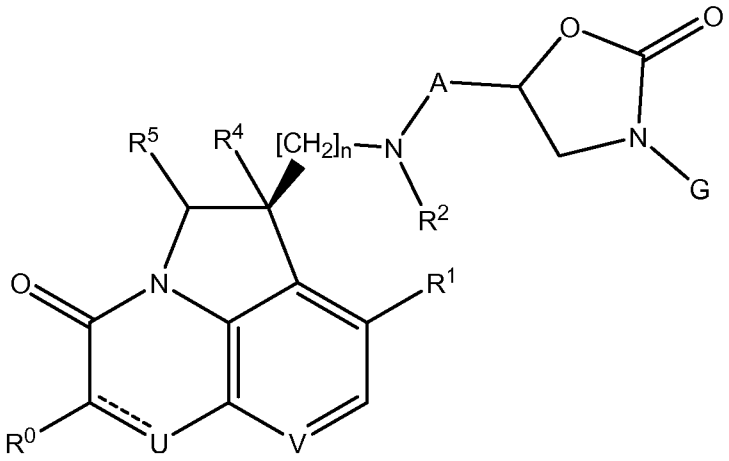


G^1

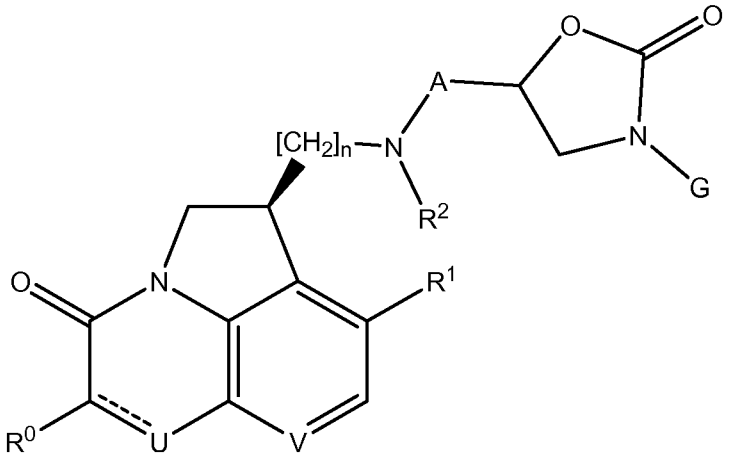
wherein X is CH or N and Q is O or S;

and to salts (in particular pharmaceutically acceptable salts) of such compounds.

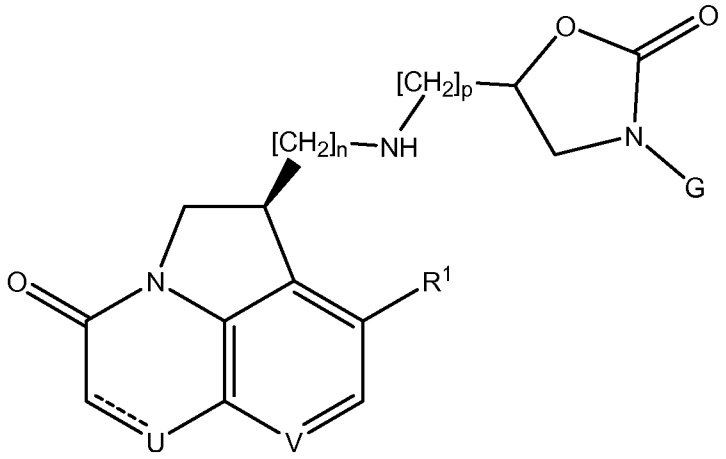
lxxviii) According to one particular variant of this invention, the compounds of formula I as defined in embodiments i) to lxxvii) above will be such that their stereochemistry is as drawn below



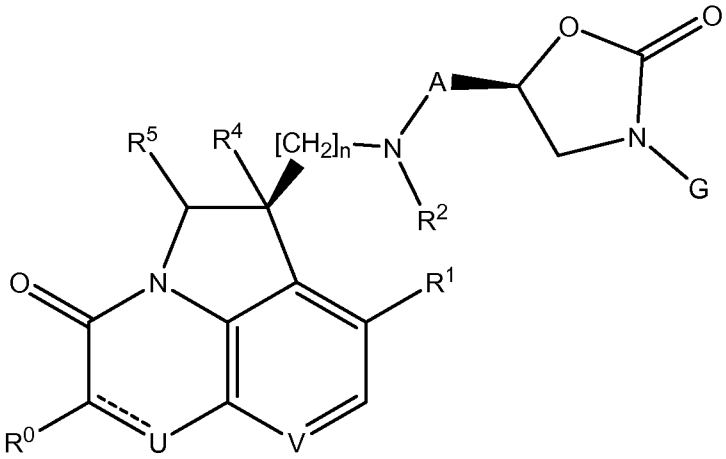
or, in the particular case of compounds of formula I_{P2}, such that their stereochemistry is as drawn below



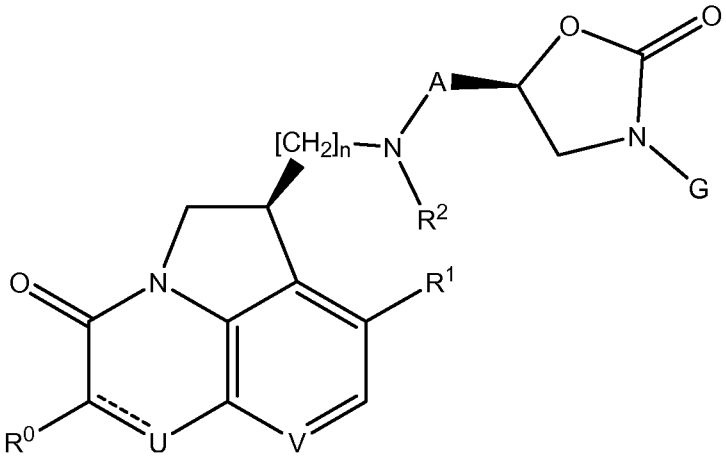
or also, in the particular case of compounds of formula I_{P1}, such that their stereochemistry is as drawn below



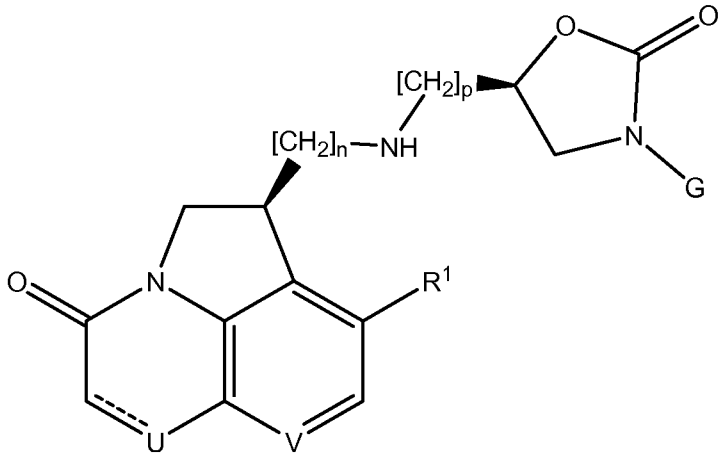
lxxix) According to one sub-variant of embodiment lxxviii), the compounds of formula I as defined in embodiment lxxviii) will be such that their stereochemistry is as drawn below



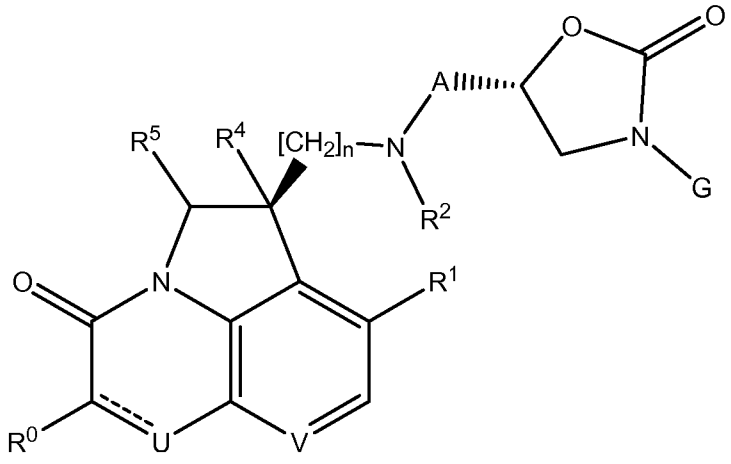
or, in the particular case of compounds of formula I_{P2}, such that their stereochemistry is as drawn below



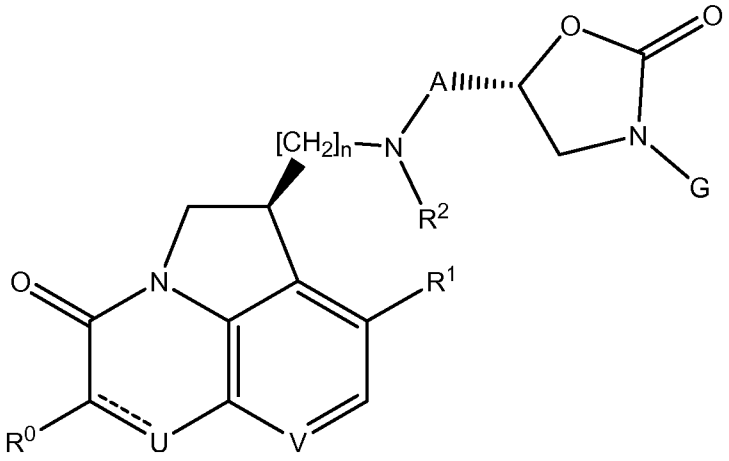
or also, in the particular case of compounds of formula I_{P1}, such that their stereochemistry is as drawn below



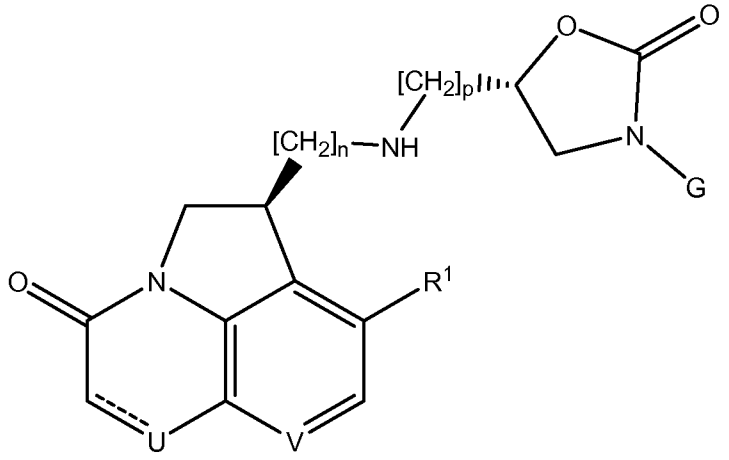
lxxx) According to the other sub-variant of embodiment lxxviii), the compounds of formula I as defined in embodiment lxxviii) will be such that their stereochemistry is as drawn below



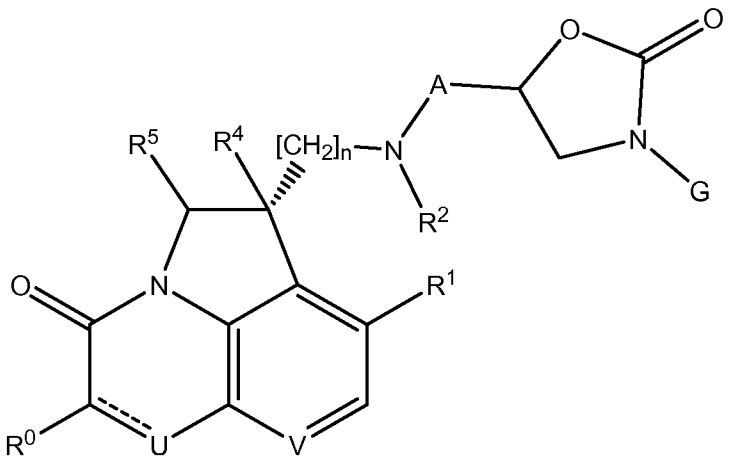
or, in the particular case of compounds of formula I_{P2}, such that their stereochemistry is as drawn below



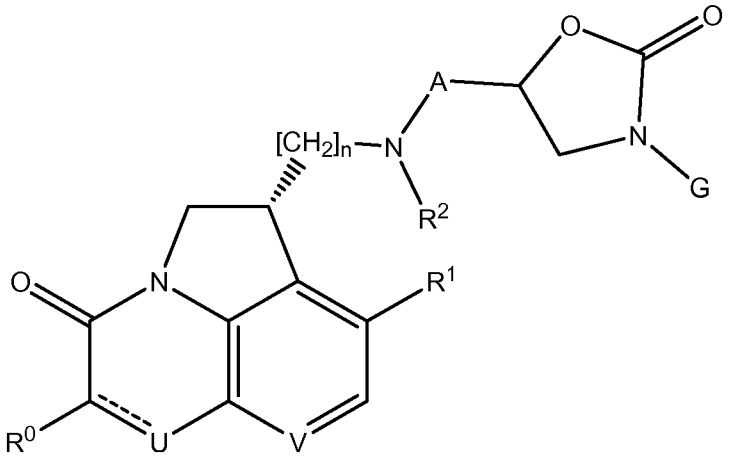
or also, in the particular case of compounds of formula I_{P1}, such that their stereochemistry is as drawn below



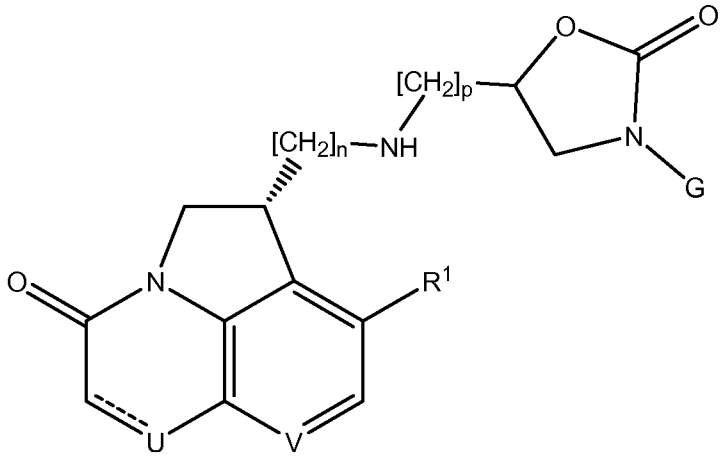
lxxxi) According to another particular variant of this invention, the compounds of formula I as defined in embodiments i) to lxxvii) above will be such that their stereochemistry is as drawn below



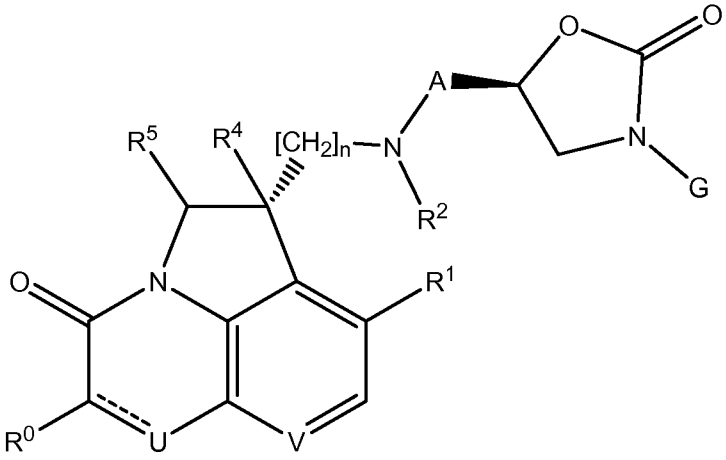
or, in the particular case of compounds of formula I_{P2}, such that their stereochemistry is as drawn below



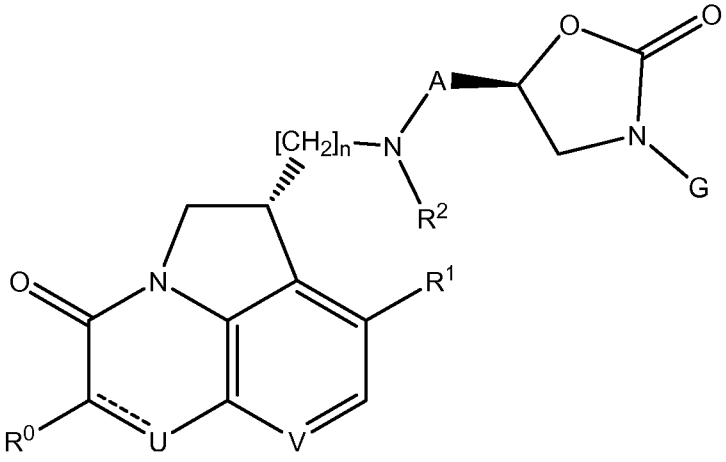
or also, in the particular case of compounds of formula I_{P1}, such that their stereochemistry is as drawn below



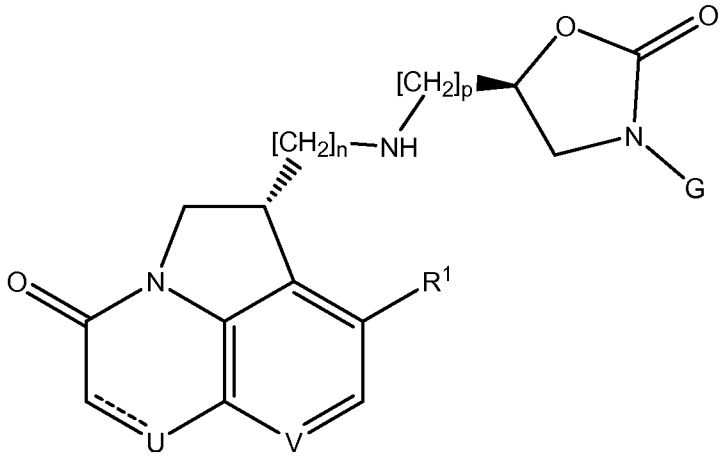
lxxxii) According to one sub-variant of embodiment lxxxi), the compounds of formula I as defined in embodiment lxxxi) will be such that their stereochemistry is as drawn below



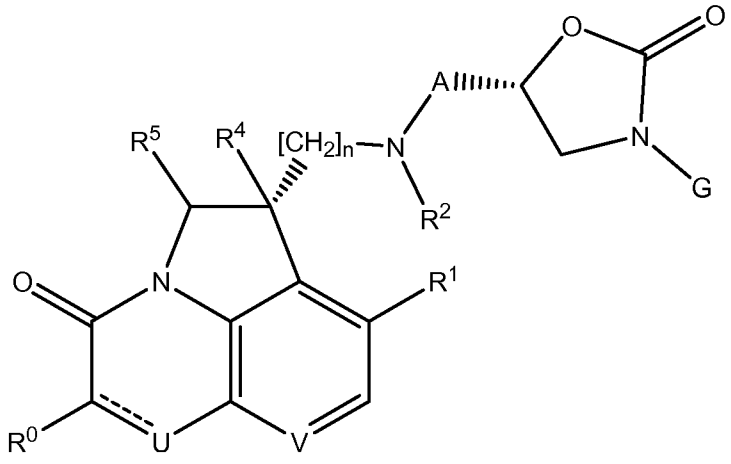
or, in the particular case of compounds of formula I_{P2}, such that their stereochemistry is as drawn below



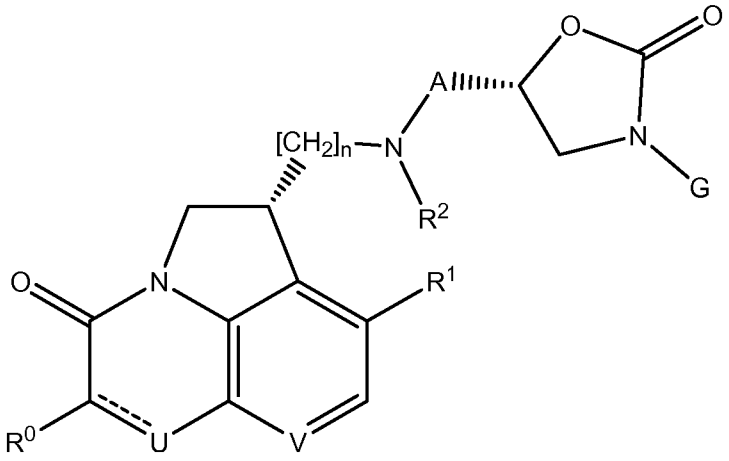
or also, in the particular case of compounds of formula I_{P1}, such that their stereochemistry is as drawn below



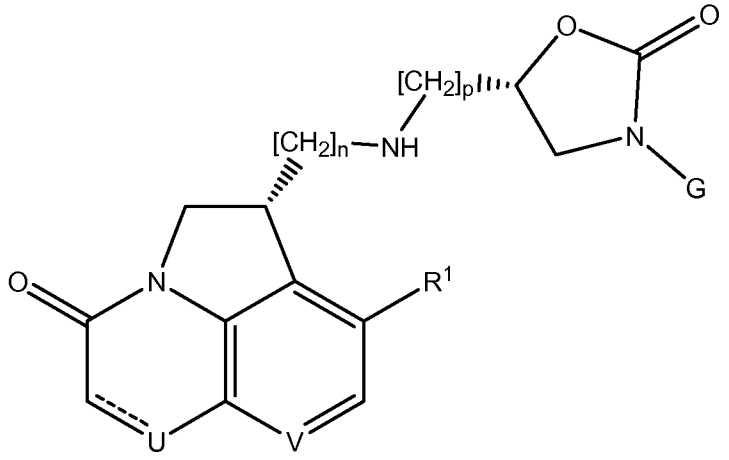
lxxxiii) According to the other sub-variant of embodiment lxxxi), the compounds of formula I as defined in embodiment lxxxi) will be such that their stereochemistry is as drawn below



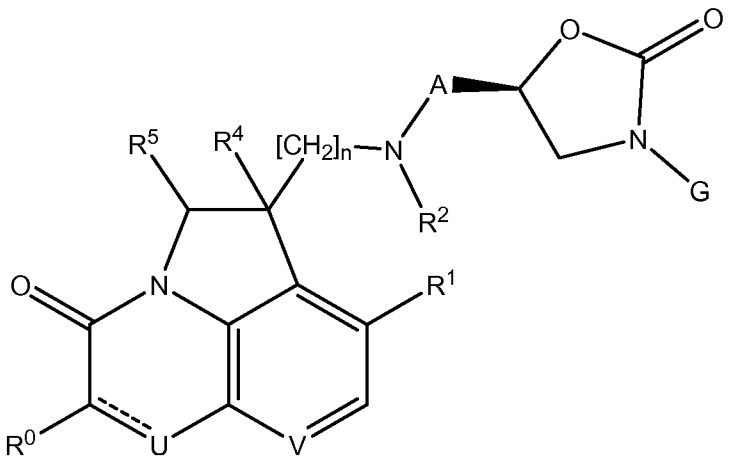
or, in the particular case of compounds of formula I_{P2}, such that their stereochemistry is as drawn below



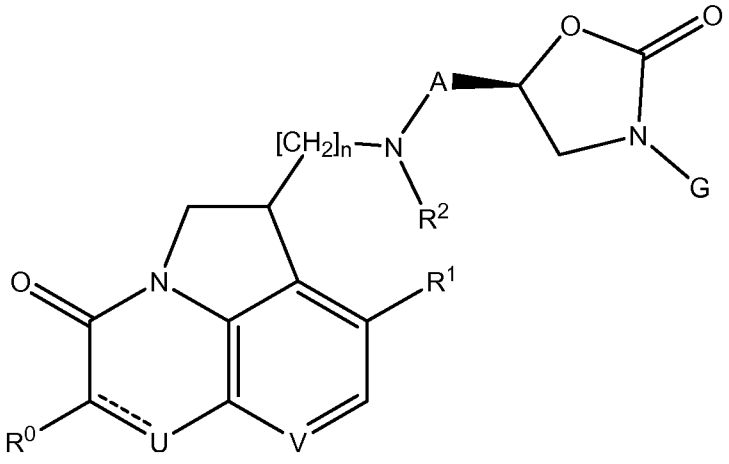
or also, in the particular case of compounds of formula I_{P1}, such that their stereochemistry is as drawn below



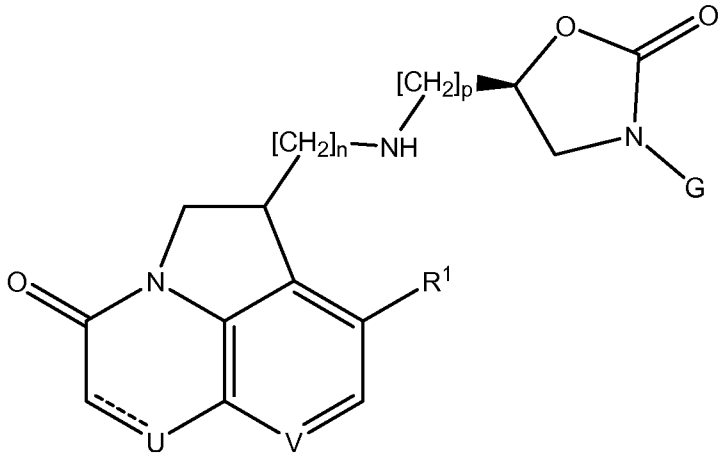
lxxxiv) According to yet another particular variant of this invention, the compounds of formula I as defined in embodiments i) to lxxvii) above will be such that their stereochemistry is as drawn below



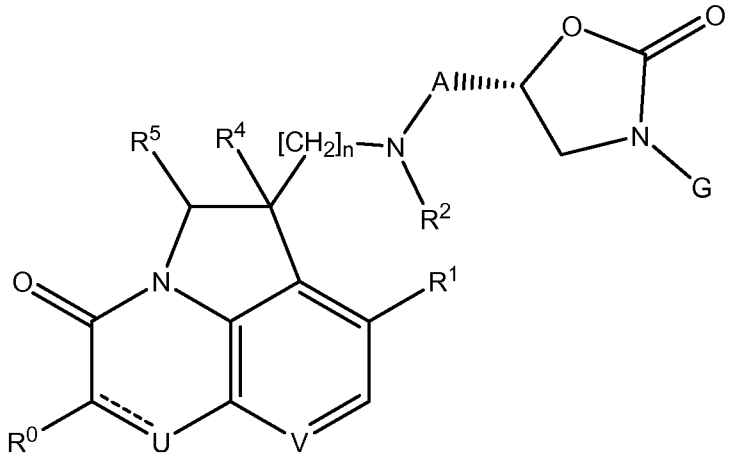
or, in the particular case of compounds of formula I_{P2}, such that their stereochemistry is as drawn below



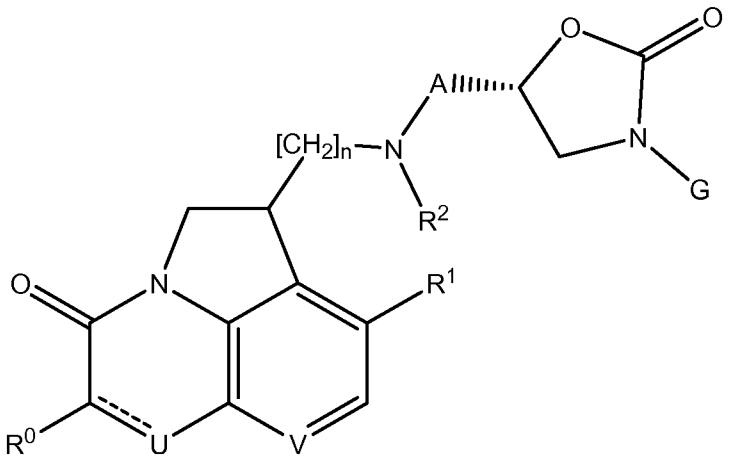
or also, in the particular case of compounds of formula I_{P1}, such that their stereochemistry is as drawn below



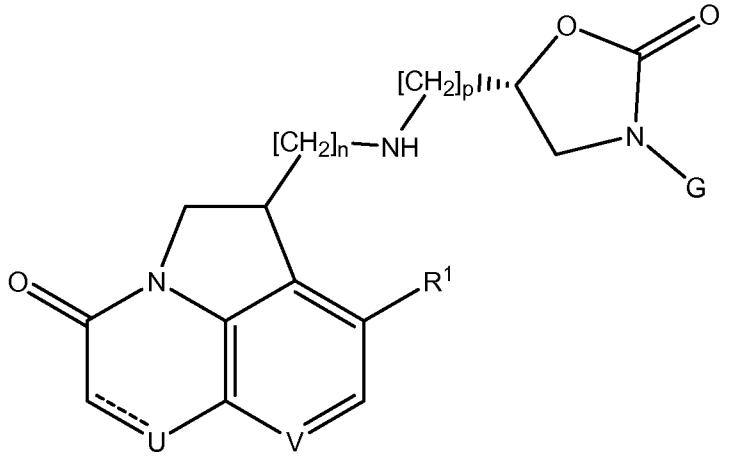
lxxxv) According to yet another particular variant of this invention, the compounds of formula I as defined in embodiments i) to lxxvii) above will be such that their stereochemistry is as drawn below



or, in the particular case of compounds of formula I_{P2}, such that their stereochemistry is as drawn below



or also, in the particular case of compounds of formula I_{P1}, such that their stereochemistry is as drawn below



lxxxvi) Particularly preferred are the following compounds of formula I as defined in one of embodiments i) to viii):

- 9-fluoro-1-({2-[(*S*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]oxazin-6-yl)-oxazolidin-5-yl]-ethylamino}-methyl)-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;
- 9-fluoro-1-({2-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]oxazin-6-yl)-oxazolidin-5-yl]-ethylamino}-methyl)-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;
- 9-fluoro-1-({2-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-ethylamino}-methyl)-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;
- 9-fluoro-1-({2-[(*S*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-ethylamino}-methyl)-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;

- 9-fluoro-1-({[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-ylmethyl]-amino}-methyl)-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;

- 9-fluoro-1-({2-[3-(3-fluoro-4-methyl-phenyl)-2-oxo-oxazolidin-5-yl]-ethylamino}-methyl)-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;

- 1-(2-{[(*R*)-3-(2,3-dihydro-benzo[1,4]dioxin-6-yl)-2-oxo-oxazolidin-5-ylmethyl]-amino}-ethyl)-9-fluoro-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;

- 9-fluoro-1-(2-{[(*S*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-ylmethyl]-amino}-ethyl)-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;

- 9-fluoro-1-(2-{[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]oxazin-6-yl)-oxazolidin-5-ylmethyl]-amino}-ethyl)-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;

- 9-fluoro-1-(2-{[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-ylmethyl]-amino}-ethyl)-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;

- 9-fluoro-1-(2-{[(*R*)-3-(3-fluoro-4-methyl-phenyl)-2-oxo-oxazolidin-5-ylmethyl]-amino}-ethyl)-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;

- 9-fluoro-1-{3-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]oxazin-6-yl)-oxazolidin-5-yl]-propylamino}-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;

- 9-fluoro-1-{3-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-propylamino}-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;

- 9-fluoro-1-{2-[2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-ethylamino}-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;

- (*4R*)-4-({2-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-ethylamino}-methyl)-4,5-dihydro-pyrrolo[3,2,1-*de*][1,5]naphthyridin-7-one;

- 3-fluoro-4-(2-{[(*S*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-ylmethyl]-amino}-ethyl)-4,5-dihydro-pyrrolo[3,2,1-*de*][1,5]naphthyridin-7-one;

- 3-fluoro-4-(2-{[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-ylmethyl]-amino}-ethyl)-4,5-dihydro-pyrrolo[3,2,1-*de*][1,5]naphthyridin-7-one;

- (*4R*)-4-{3-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-propylamino}-4,5-dihydro-pyrrolo[3,2,1-*de*][1,5]naphthyridin-7-one;

- (*4R*)-4-{3-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]oxazin-6-yl)-oxazolidin-5-yl]-propylamino}-4,5-dihydro-pyrrolo[3,2,1-*de*][1,5]naphthyridin-7-one;

- 6-{3-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-propylamino}-5,6-dihydro-pyrrolo[1,2,3-*de*]quinoxalin-3-one;

- 6-{3-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]oxazin-6-yl)-oxazolidin-5-yl]-propylamino}-5,6-dihydro-pyrrolo[1,2,3-*de*]quinoxalin-3-one;
- 9-fluoro-1-(2-{[(*S*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-ylmethyl]-amino}-ethyl)-1,2,5,6-tetrahydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;
- 9-fluoro-1-({2-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-ethylamino}-methyl)-1,2,5,6-tetrahydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;
- 9-fluoro-1-(2-{[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-ylmethyl]-amino}-ethyl)-1,2,5,6-tetrahydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;
- 9-fluoro-1-(2-{[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]oxazin-6-yl)-oxazolidin-5-ylmethyl]-amino}-ethyl)-1,2,5,6-tetrahydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;
- 1-(2-{[(*R*)-3-(2,3-dihydro-benzo[1,4]dioxin-6-yl)-2-oxo-oxazolidin-5-ylmethyl]-amino}-ethyl)-9-fluoro-1,2,5,6-tetrahydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;
- 9-fluoro-1-(2-{[(*R*)-3-(3-fluoro-4-methyl-phenyl)-2-oxo-oxazolidin-5-ylmethyl]-amino}-ethyl)-1,2,5,6-tetrahydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;
- 3-fluoro-4-({2-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-ethylamino}-methyl)-4,5-dihydro-pyrrolo[3,2,1-*de*][1,5]naphthyridin-7-one;
- 9-fluoro-1-({2-[(*S*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-ethylamino}-methyl)-1,2,5,6-tetrahydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;
- 9-fluoro-1-({[(*S*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-ylmethyl]-amino}-methyl)-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;
- 1-({[(*R*)-3-(2,3-dihydro-benzo[1,4]dioxin-6-yl)-2-oxo-oxazolidin-5-ylmethyl]-amino}-methyl)-9-fluoro-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;
- 9-fluoro-1-({[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]oxazin-6-yl)-oxazolidin-5-ylmethyl]-amino}-methyl)-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;
- 9-fluoro-1-({[(*R*)-3-(3-fluoro-4-methyl-phenyl)-2-oxo-oxazolidin-5-ylmethyl]-amino}-methyl)-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;

as well as the salts (in particular the pharmaceutically acceptable salts) thereof.

lxxxvii) A further object of this invention thus relates to the following compounds of formula I as defined in one of embodiments i) to viii):

- (*1R*)-9-fluoro-1-({2-[(*S*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]oxazin-6-yl)-oxazolidin-5-yl]-ethylamino}-methyl)-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;

- (*1S*)-9-fluoro-1-({2-[(*S*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]oxazin-6-yl)-oxazolidin-5-yl]-ethylamino}-methyl)-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;
- (*1R*)-9-fluoro-1-({2-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]oxazin-6-yl)-oxazolidin-5-yl]-ethylamino}-methyl)-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;
- (*1S*)-9-fluoro-1-({2-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]oxazin-6-yl)-oxazolidin-5-yl]-ethylamino}-methyl)-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;
- (*1R*)-9-fluoro-1-({2-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-ethylamino}-methyl)-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;
- (*1S*)-9-fluoro-1-({2-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-ethylamino}-methyl)-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;
- (1*R*)-9-fluoro-1-({2-[(*S*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-ethylamino}-methyl)-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;
- (1*S*)-9-fluoro-1-({2-[(*S*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-ethylamino}-methyl)-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;
- (*1R*)-9-fluoro-1-({[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-ylmethyl]-amino}-methyl)-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;
- (*1S*)-9-fluoro-1-({[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-ylmethyl]-amino}-methyl)-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;
- (*1R*)-9-fluoro-1-({2-[(*R*)-3-(3-fluoro-4-methyl-phenyl)-2-oxo-oxazolidin-5-yl]-ethylamino}-methyl)-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;
- (*1R*)-9-fluoro-1-({2-[(*S*)-3-(3-fluoro-4-methyl-phenyl)-2-oxo-oxazolidin-5-yl]-ethylamino}-methyl)-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;
- (*1S*)-9-fluoro-1-({2-[(*R*)-3-(3-fluoro-4-methyl-phenyl)-2-oxo-oxazolidin-5-yl]-ethylamino}-methyl)-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;
- (*1S*)-9-fluoro-1-({2-[(*S*)-3-(3-fluoro-4-methyl-phenyl)-2-oxo-oxazolidin-5-yl]-ethylamino}-methyl)-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;
- (*1R*)-1-(2-{[(*R*)-3-(2,3-dihydro-benzo[1,4]dioxin-6-yl)-2-oxo-oxazolidin-5-ylmethyl]-amino}-ethyl)-9-fluoro-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;
- (*1S*)-1-(2-{[(*R*)-3-(2,3-dihydro-benzo[1,4]dioxin-6-yl)-2-oxo-oxazolidin-5-ylmethyl]-amino}-ethyl)-9-fluoro-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;
- (*1R*)-9-fluoro-1-(2-{[(*S*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-ylmethyl]-amino}-ethyl)-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;

- (*1S*)-9-fluoro-1-(2-{[(*S*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-ylmethyl]-amino}-ethyl)-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;
- (*1R*)-9-fluoro-1-(2-{[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]oxazin-6-yl)-oxazolidin-5-ylmethyl]-amino}-ethyl)-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;
- (*1S*)-9-fluoro-1-(2-{[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]oxazin-6-yl)-oxazolidin-5-ylmethyl]-amino}-ethyl)-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;
- (*1R)*-9-fluoro-1-(2-{[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-ylmethyl]-amino}-ethyl)-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;
- (*1S)*-9-fluoro-1-(2-{[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-ylmethyl]-amino}-ethyl)-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;
- (*1R*)-9-fluoro-1-(2-{[(*R*)-3-(3-fluoro-4-methyl-phenyl)-2-oxo-oxazolidin-5-ylmethyl]-amino}-ethyl)-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;
- (*1S*)-9-fluoro-1-(2-{[(*R*)-3-(3-fluoro-4-methyl-phenyl)-2-oxo-oxazolidin-5-ylmethyl]-amino}-ethyl)-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;
- (*1R*)-9-fluoro-1-{3-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]oxazin-6-yl)-oxazolidin-5-yl]-propylamino}-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;
- (*1S*)-9-fluoro-1-{3-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]oxazin-6-yl)-oxazolidin-5-yl]-propylamino}-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;
- (*1R*)-9-fluoro-1-{3-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-propylamino}-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;
- (*1S*)-9-fluoro-1-{3-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-propylamino}-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;
- (*1R*)-9-fluoro-1-{2-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-ethylamino}-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;
- (*1R*)-9-fluoro-1-{2-[(*S*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-ethylamino}-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;
- (*1S*)-9-fluoro-1-{2-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-ethylamino}-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;
- (*1S*)-9-fluoro-1-{2-[(*S*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-ethylamino}-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;
- (*4R*)-4-({2-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-ethylamino}-methyl)-4,5-dihydro-pyrrolo[3,2,1-*de*][1,5]naphthyridin-7-one;

- (*4R*)-3-fluoro-4-(2-{[(*S*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-ylmethyl]-amino}-ethyl)-4,5-dihydro-pyrrolo[3,2,1-*de*][1,5]naphthyridin-7-one;

- (*4S*)-3-fluoro-4-(2-{[(*S*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-ylmethyl]-amino}-ethyl)-4,5-dihydro-pyrrolo[3,2,1-*de*][1,5]naphthyridin-7-one;

- (*4R*)-3-fluoro-4-(2-{[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-ylmethyl]-amino}-ethyl)-4,5-dihydro-pyrrolo[3,2,1-*de*][1,5]naphthyridin-7-one;

- (*4S*)-3-fluoro-4-(2-{[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-ylmethyl]-amino}-ethyl)-4,5-dihydro-pyrrolo[3,2,1-*de*][1,5]naphthyridin-7-one;

- (*4R*)-4-{3-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-propylamino}-4,5-dihydro-pyrrolo[3,2,1-*de*][1,5]naphthyridin-7-one;

- (*4R*)-4-{3-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]oxazin-6-yl)-oxazolidin-5-yl]-propylamino}-4,5-dihydro-pyrrolo[3,2,1-*de*][1,5]naphthyridin-7-one;

- (*6R*)-6-{3-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-propylamino}-5,6-dihydro-pyrrolo[1,2,3-*de*]quinoxalin-3-one;

- (*6S*)-6-{3-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-propylamino}-5,6-dihydro-pyrrolo[1,2,3-*de*]quinoxalin-3-one;

- (*6R*)-6-{3-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]oxazin-6-yl)-oxazolidin-5-yl]-propylamino}-5,6-dihydro-pyrrolo[1,2,3-*de*]quinoxalin-3-one;

- (*6S*)-6-{3-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]oxazin-6-yl)-oxazolidin-5-yl]-propylamino}-5,6-dihydro-pyrrolo[1,2,3-*de*]quinoxalin-3-one;

- (*1R*)-9-fluoro-1-(2-{[(*S*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-ylmethyl]-amino}-ethyl)-1,2,5,6-tetrahydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;

- (*1S*)-9-fluoro-1-(2-{[(*S*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-ylmethyl]-amino}-ethyl)-1,2,5,6-tetrahydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;

- (*1R*)-9-fluoro-1-({2-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-ethylamino}-methyl)-1,2,5,6-tetrahydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;

- (*1S*)-9-fluoro-1-({2-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-ethylamino}-methyl)-1,2,5,6-tetrahydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;

- (*1R*)-9-fluoro-1-(2-{[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-ylmethyl]-amino}-ethyl)-1,2,5,6-tetrahydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;
- (*1S*)-9-fluoro-1-(2-{[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-ylmethyl]-amino}-ethyl)-1,2,5,6-tetrahydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;
- (*1R*)-9-fluoro-1-(2-{[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]oxazin-6-yl)-oxazolidin-5-ylmethyl]-amino}-ethyl)-1,2,5,6-tetrahydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;
- (*1S*)-9-fluoro-1-(2-{[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]oxazin-6-yl)-oxazolidin-5-ylmethyl]-amino}-ethyl)-1,2,5,6-tetrahydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;
- (*1R*)-1-(2-{[(*R*)-3-(2,3-dihydro-benzo[1,4]dioxin-6-yl)-2-oxo-oxazolidin-5-ylmethyl]-amino}-ethyl)-9-fluoro-1,2,5,6-tetrahydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;
- (*1S*)-1-(2-{[(*R*)-3-(2,3-dihydro-benzo[1,4]dioxin-6-yl)-2-oxo-oxazolidin-5-ylmethyl]-amino}-ethyl)-9-fluoro-1,2,5,6-tetrahydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;
- (*1R*)-9-fluoro-1-(2-{[(*R*)-3-(3-fluoro-4-methyl-phenyl)-2-oxo-oxazolidin-5-ylmethyl]-amino}-ethyl)-1,2,5,6-tetrahydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;
- (*1S*)-9-fluoro-1-(2-{[(*R*)-3-(3-fluoro-4-methyl-phenyl)-2-oxo-oxazolidin-5-ylmethyl]-amino}-ethyl)-1,2,5,6-tetrahydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;
- (*4R*)-3-fluoro-4-({2-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-ethylamino}-methyl)-4,5-dihydro-pyrrolo[3,2,1-*de*][1,5]naphthyridin-7-one;
- (*4S*)-3-fluoro-4-({2-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-ethylamino}-methyl)-4,5-dihydro-pyrrolo[3,2,1-*de*][1,5]naphthyridin-7-one;
- (*1R*)-9-fluoro-1-({2-[(*S*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-ethylamino}-methyl)-1,2,5,6-tetrahydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;
- (*1S*)-9-fluoro-1-({2-[(*S*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-ethylamino}-methyl)-1,2,5,6-tetrahydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;
- (*1R*)-9-fluoro-1-({[(*S*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-ylmethyl]-amino}-methyl)-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;
- (*1S*)-9-fluoro-1-({[(*S*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-ylmethyl]-amino}-methyl)-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;
- (*1R*)-1-({[(*R*)-3-(2,3-dihydro-benzo[1,4]dioxin-6-yl)-2-oxo-oxazolidin-5-ylmethyl]-amino}-methyl)-9-fluoro-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;

- (*1S*)-1-({[(*R*)-3-(2,3-dihydro-benzo[1,4]dioxin-6-yl)-2-oxo-oxazolidin-5-ylmethyl]-amino}-methyl)-9-fluoro-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;
- (*1R*)-9-fluoro-1-({[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]oxazin-6-yl)-oxazolidin-5-ylmethyl]-amino}-methyl)-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;
- (*1S*)-9-fluoro-1-({[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]oxazin-6-yl)-oxazolidin-5-ylmethyl]-amino}-methyl)-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;
- (*1R*)-9-fluoro-1-({[(*R*)-3-(3-fluoro-4-methyl-phenyl)-2-oxo-oxazolidin-5-ylmethyl]-amino}-methyl)-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;
- (*1S*)-9-fluoro-1-({[(*R*)-3-(3-fluoro-4-methyl-phenyl)-2-oxo-oxazolidin-5-ylmethyl]-amino}-methyl)-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;

as well as to the salts (in particular the pharmaceutically acceptable salts) thereof.

lxxxviii) Further particularly preferred compounds of formula I as defined in embodiment i), ii), iii), v), vi) or vii) are the following compounds:

- 4-({2-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-ethylamino}-methyl)-4,5-dihydro-pyrrolo[3,2,1-*de*][1,5]naphthyridin-7-one;
- 1-{3-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-propylamino}-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;
- 1-({[(*R*)-3-(4-ethoxy-phenyl)-2-oxo-oxazolidin-5-ylmethyl]-amino}-methyl)-9-fluoro-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;
- 9-fluoro-1-({[(*R*)-2-oxo-3-(4-propyl-phenyl)-oxazolidin-5-ylmethyl]-amino}-methyl)-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;
- 1-({[(*R*)-3-(4-butyl-phenyl)-2-oxo-oxazolidin-5-ylmethyl]-amino}-methyl)-9-fluoro-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;
- (*S*)-4-{3-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-propylamino}-4,5-dihydro-pyrrolo[3,2,1-*de*][1,5]naphthyridin-7-one;
- (*S*)-4-{3-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]oxazin-6-yl)-oxazolidin-5-yl]-propylamino}-4,5-dihydro-pyrrolo[3,2,1-*de*][1,5]naphthyridin-7-one;
- (*S*)-4-{2-[(*S*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-ethylamino}-4,5-dihydro-pyrrolo[3,2,1-*de*][1,5]naphthyridin-7-one;
- 1-({2-[3-(2,3-dihydro-[1,4]dioxino[2,3-*c*]pyridin-7-yl)-2-oxo-oxazolidin-5-yl]-ethylamino}-methyl)-9-fluoro-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;

- 1-({2-[3-(2,3-dihydro-[1,4]dioxino[2,3-*b*]pyridin-6-yl)-2-oxo-oxazolidin-5-yl]-ethylamino}-methyl)-9-fluoro-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;
- 1-({2-[(*R*)-3-(4-ethoxy-phenyl)-2-oxo-oxazolidin-5-yl]-ethylamino}-methyl)-9-fluoro-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;
- 9-fluoro-1-({2-[(*R*)-2-oxo-3-(4-propyl-phenyl)-oxazolidin-5-yl]-ethylamino}-methyl)-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;
- 1-({2-[(*R*)-3-(2,3-dihydro-benzo[1,4]dioxin-6-yl)-2-oxo-oxazolidin-5-yl]-ethylamino}-methyl)-9-fluoro-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;
- 9-fluoro-1-({2-[2-oxo-3-(3-oxo-3,4-dihydro-2*H*-pyrido[3,2-*b*][1,4]oxazin-6-yl)-oxazolidin-5-yl]-ethylamino}-methyl)-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;
- (*S*)-6-{3-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-propylamino}-5,6-dihydro-pyrrolo[1,2,3-*de*]quinoxalin-3-one;
- (*S*)-9-fluoro-1-({2-[(*S*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-ethylamino}-methyl)-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;
- (*R*)-9-fluoro-1-({2-[(*S*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-ethylamino}-methyl)-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;
- 9-fluoro-1-({3-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-propylamino}-methyl)-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;
- 9-fluoro-1-({3-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]oxazin-6-yl)-oxazolidin-5-yl]-propylamino}-methyl)-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;
- 1-({2-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-ethylamino}-methyl)-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;
- (*S*)-6-{2-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-ethylamino}-5,6-dihydro-pyrrolo[1,2,3-*de*]quinoxalin-3-one;
- (*S*)-6-{2-[(*S*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-ethylamino}-5,6-dihydro-pyrrolo[1,2,3-*de*]quinoxalin-3-one;
- 6-({2-[(*S*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-ethylamino}-methyl)-5,6-dihydro-pyrrolo[1,2,3-*de*]quinoxalin-3-one;
- (*S*)-7-fluoro-6-{3-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]oxazin-6-yl)-oxazolidin-5-yl]-propylamino}-5,6-dihydro-pyrrolo[1,2,3-*de*]quinoxalin-3-one;
- (*S*)-7-fluoro-6-{3-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-propylamino}-5,6-dihydro-pyrrolo[1,2,3-*de*]quinoxalin-3-one;

- 9-fluoro-1-{2-[*(R)*-2-oxo-3-(4-propyl-phenyl)-oxazolidin-5-yl]-ethylamino}-1,2-dihydro-pyrrolo[3,2,1-ij]quinolin-4-one;

- 1-({2-[(*S*)-3-(2,3-dihydro-benzo[1,4]dioxin-6-yl)-2-oxo-oxazolidin-5-yl]-ethylamino}-methyl)-9-fluoro-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;

- 1-({2-[(*S*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-ethylamino}-methyl)-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;

- 1-({2-[(*S*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]oxazin-6-yl)-oxazolidin-5-yl]-ethylamino}-methyl)-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;

- 1-({[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-ylmethyl]-amino}-methyl)-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;

- (*R*)-6-{3-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-propylamino}-5,6-dihydro-pyrrolo[1,2,3-*de*]quinoxalin-3-one;

- (*R*)-6-{3-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]oxazin-6-yl)-oxazolidin-5-yl]-propylamino}-5,6-dihydro-pyrrolo[1,2,3-*de*]quinoxalin-3-one;

- (*S*)-7-fluoro-6-((2-hydroxy-ethyl)-{3-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-propyl}-amino)-5,6-dihydro-pyrrolo[1,2,3-*de*]quinoxalin-3-one;

- (*S*)-7-fluoro-6-((2-hydroxy-ethyl)-{3-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]oxazin-6-yl)-oxazolidin-5-yl]-propyl}-amino)-5,6-dihydro-pyrrolo[1,2,3-*de*]quinoxalin-3-one;

- 9-fluoro-1-(2-{(3-hydroxy-propyl)-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-ylmethyl]-amino}-ethyl)-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;

- 9-fluoro-1-(2-{(2-hydroxy-ethyl)-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-ylmethyl]-amino}-ethyl)-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;

- 9-fluoro-1-{3-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-pyrido[3,2-*b*][1,4]oxazin-6-yl)-oxazolidin-5-yl]-propylamino}-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;

- (*S*)-7-fluoro-6-{3-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-pyrido[3,2-*b*][1,4]oxazin-6-yl)-oxazolidin-5-yl]-propylamino}-5,6-dihydro-pyrrolo[1,2,3-*de*]quinoxalin-3-one;

- (*S*)-1-{3-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-propylamino}-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;

- (*S*)-1-{3-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]oxazin-6-yl)-oxazolidin-5-yl]-propylamino}-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;

- (*S*)-1-{3-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-pyrido[3,2-*b*][1,4]oxazin-6-yl)-oxazolidin-5-yl]-propylamino}-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;

- (*R*)-6-{3-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-pyrido[3,2-*b*][1,4]oxazin-6-yl)-oxazolidin-5-yl]-propylamino}-5,6-dihydro-pyrrolo[1,2,3-*de*]quinoxalin-3-one;

- (*S*)-4-({2-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-ethylamino}-methyl)-4,5-dihydro-pyrrolo[3,2,1-*de*][1,5]naphthyridin-7-one;

- (*S*)-4-({2-[(*S*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-ethylamino}-methyl)-4,5-dihydro-pyrrolo[3,2,1-*de*][1,5]naphthyridin-7-one;

- (*R*)-4-({2-[(*S*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-ethylamino}-methyl)-4,5-dihydro-pyrrolo[3,2,1-*de*][1,5]naphthyridin-7-one;

- (*S*)-7-fluoro-6-{3-[(*S*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-propylamino}-5,6-dihydro-pyrrolo[1,2,3-*de*]quinoxalin-3-one;

- (*S*)-7-fluoro-6-{3-[(*S*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]oxazin-6-yl)-oxazolidin-5-yl]-propylamino}-5,6-dihydro-pyrrolo[1,2,3-*de*]quinoxalin-3-one;

- 1-({[(*S*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-ylmethyl]-amino}-methyl)-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;

- 1-({[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]oxazin-6-yl)-oxazolidin-5-ylmethyl]-amino}-methyl)-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;

- 1-({3-[2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-propylamino}-methyl)-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;

- 3-fluoro-4-{2-[(*S*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-ethylamino}-4,5-dihydro-pyrrolo[3,2,1-*de*][1,5]naphthyridin-7-one;

- (*S*)-1-{3-[(*S*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-propylamino}-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;

- (*S*)-1-{3-[(*S*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]oxazin-6-yl)-oxazolidin-5-yl]-propylamino}-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;

- (*S*)-1-{2-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-ethylamino}-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;

- (*S*)-1-{2-[(*S*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-ethylamino}-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;

- (*S*)-1-{2-[(*S*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]oxazin-6-yl)-oxazolidin-5-yl]-ethylamino}-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;

- 9-fluoro-1-[((3-hydroxy-propyl)-{2-[(*S*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-ethyl}-amino)-methyl]-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;

- 9-fluoro-1-[((2-hydroxy-ethyl)-{2-[(*S*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-ethyl}-amino)-methyl]-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;

- 9-fluoro-1-((3-hydroxy-propyl)-{3-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-propyl}-amino)-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;

- 9-fluoro-1-((2-hydroxy-ethyl)-{3-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-propyl}-amino)-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;

- 3-fluoro-4-{3-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-propylamino}-4,5-dihydro-pyrrolo[3,2,1-*de*][1,5]naphthyridin-7-one;

- 3-fluoro-4-{3-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]oxazin-6-yl)-oxazolidin-5-yl]-propylamino}-4,5-dihydro-pyrrolo[3,2,1-*de*][1,5]naphthyridin-7-one;

- 3-fluoro-4-{3-[(*S*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-propylamino}-4,5-dihydro-pyrrolo[3,2,1-*de*][1,5]naphthyridin-7-one;

- 3-fluoro-4-{3-[(*S*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]oxazin-6-yl)-oxazolidin-5-yl]-propylamino}-4,5-dihydro-pyrrolo[3,2,1-*de*][1,5]naphthyridin-7-one;

- 3-fluoro-4-({[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]oxazin-6-yl)-oxazolidin-5-ylmethyl]-amino}-methyl)-4,5-dihydro-pyrrolo[3,2,1-*de*][1,5]naphthyridin-7-one;

- 3-fluoro-4-({2-[(*S*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-ethylamino}-methyl)-4,5-dihydro-pyrrolo[3,2,1-*de*][1,5]naphthyridin-7-one;

- 3-fluoro-4-({[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-ylmethyl]-amino}-methyl)-4,5-dihydro-pyrrolo[3,2,1-*de*][1,5]naphthyridin-7-one;

- 3-fluoro-4-({[(*S*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-ylmethyl]-amino}-methyl)-4,5-dihydro-pyrrolo[3,2,1-*de*][1,5]naphthyridin-7-one;

- 3-fluoro-4-({2-[(*S*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]oxazin-6-yl)-oxazolidin-5-yl]-ethylamino}-methyl)-4,5-dihydro-pyrrolo[3,2,1-*de*][1,5]naphthyridin-7-one;

- 3-fluoro-4-({2-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]oxazin-6-yl)-oxazolidin-5-yl]-ethylamino}-methyl)-4,5-dihydro-pyrrolo[3,2,1-*de*][1,5]naphthyridin-7-one;

- (*R*)-7-fluoro-6-{3-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]oxazin-6-yl)-oxazolidin-5-yl]-propylamino}-5,6-dihydro-pyrrolo[1,2,3-*de*]quinoxalin-3-one;

- (*R*)-7-fluoro-6-{3-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-propylamino}-5,6-dihydro-pyrrolo[1,2,3-*de*]quinoxalin-3-one;
- 6-({[(*S*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-ylmethyl]-amino}-methyl)-5,6-dihydro-pyrrolo[1,2,3-*de*]quinoxalin-3-one;
- 1-{2-[(*S*)-3-(2,3-dihydro-benzo[1,4]dioxin-6-yl)-2-oxo-oxazolidin-5-yl]-ethylamino}-9-fluoro-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;
- *N*-((*S*)-9-fluoro-4-oxo-1,2-dihydro-4*H*-pyrrolo[3,2,1-*ij*]quinolin-1-yl)-3-hydroxy-3-[2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-propionamide;
- (*R*)-1-{3-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-propylamino}-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;
- 6-({[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-ylmethyl]-amino}-methyl)-5,6-dihydro-pyrrolo[1,2,3-*de*]quinoxalin-3-one;
- (*R*)-7-fluoro-2-methoxy-6-{3-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]oxazin-6-yl)-oxazolidin-5-yl]-propylamino}-5,6-dihydro-pyrrolo[1,2,3-*de*]quinoxalin-3-one;
- (*R*)-7-fluoro-2-methoxy-6-{3-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-propylamino}-5,6-dihydro-pyrrolo[1,2,3-*de*]quinoxalin-3-one;
- 9-fluoro-1-{3-hydroxy-3-[2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-propylamino}-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;
- *(S)*-6-{3-[*(R)*-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-propylamino}-1,2,5,6-tetrahydro-pyrrolo[1,2,3-*de*]quinoxalin-3-one;

as well as the salts (in particular the pharmaceutically acceptable salts) thereof.

lxxxix) A further object of this invention thus relates to the following compounds of formula I as defined in embodiment i), ii), iii), v), vi) or vii):

- (*R*)-4-({2-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-ethylamino}-methyl)-4,5-dihydro-pyrrolo[3,2,1-*de*][1,5]naphthyridin-7-one;
- (*S*)-4-({2-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-ethylamino}-methyl)-4,5-dihydro-pyrrolo[3,2,1-*de*][1,5]naphthyridin-7-one;
- (*R*)-1-{3-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-propylamino}-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;
- (*S*)-1-{3-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-propylamino}-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;

- (*R*)-1-({[(*R*)-3-(4-ethoxy-phenyl)-2-oxo-oxazolidin-5-ylmethyl]-amino}-methyl)-9-fluoro-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;
- (*S*)-1-({[(*R*)-3-(4-ethoxy-phenyl)-2-oxo-oxazolidin-5-ylmethyl]-amino}-methyl)-9-fluoro-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;
- (*R*)-9-fluoro-1-({[(*R*)-2-oxo-3-(4-propyl-phenyl)-oxazolidin-5-ylmethyl]-amino}-methyl)-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;
- (*S*)-9-fluoro-1-({[(*R*)-2-oxo-3-(4-propyl-phenyl)-oxazolidin-5-ylmethyl]-amino}-methyl)-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;
- (*R*)-1-({[(*R*)-3-(4-butyl-phenyl)-2-oxo-oxazolidin-5-ylmethyl]-amino}-methyl)-9-fluoro-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;
- (*S*)-1-({[(*R*)-3-(4-butyl-phenyl)-2-oxo-oxazolidin-5-ylmethyl]-amino}-methyl)-9-fluoro-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;
- (*S*)-4-{3-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-propylamino}-4,5-dihydro-pyrrolo[3,2,1-*de*][1,5]naphthyridin-7-one;
- (*S*)-4-{3-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]oxazin-6-yl)-oxazolidin-5-yl]-propylamino}-4,5-dihydro-pyrrolo[3,2,1-*de*][1,5]naphthyridin-7-one;
- (*S*)-4-{2-[(*S*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-ethylamino}-4,5-dihydro-pyrrolo[3,2,1-*de*][1,5]naphthyridin-7-one;
- (*R*)-1-({2-[(*R*)-3-(2,3-dihydro-[1,4]dioxino[2,3-*c*]pyridin-7-yl)-2-oxo-oxazolidin-5-yl]-ethylamino}-methyl)-9-fluoro-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;
- (*R*)-1-({2-[(*S*)-3-(2,3-dihydro-[1,4]dioxino[2,3-*c*]pyridin-7-yl)-2-oxo-oxazolidin-5-yl]-ethylamino}-methyl)-9-fluoro-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;
- (*S*)-1-({2-[(*R*)-3-(2,3-dihydro-[1,4]dioxino[2,3-*c*]pyridin-7-yl)-2-oxo-oxazolidin-5-yl]-ethylamino}-methyl)-9-fluoro-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;
- (*S*)-1-({2-[(*S*)-3-(2,3-dihydro-[1,4]dioxino[2,3-*c*]pyridin-7-yl)-2-oxo-oxazolidin-5-yl]-ethylamino}-methyl)-9-fluoro-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;
- (*R*)-1-({2-[(*R*)-3-(2,3-dihydro-[1,4]dioxino[2,3-*b*]pyridin-6-yl)-2-oxo-oxazolidin-5-yl]-ethylamino}-methyl)-9-fluoro-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;
- (*R*)-1-({2-[(*S*)-3-(2,3-dihydro-[1,4]dioxino[2,3-*b*]pyridin-6-yl)-2-oxo-oxazolidin-5-yl]-ethylamino}-methyl)-9-fluoro-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;
- (*S*)-1-({2-[(*R*)-3-(2,3-dihydro-[1,4]dioxino[2,3-*b*]pyridin-6-yl)-2-oxo-oxazolidin-5-yl]-ethylamino}-methyl)-9-fluoro-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;

- (*S*)-1-({2-[(*S*)-3-(2,3-dihydro-[1,4]dioxino[2,3-*b*]pyridin-6-yl)-2-oxo-oxazolidin-5-yl]-ethylamino}-methyl)-9-fluoro-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;
- (*R*)-1-({2-[(*R*)-3-(4-ethoxy-phenyl)-2-oxo-oxazolidin-5-yl]-ethylamino}-methyl)-9-fluoro-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;
- (*S*)-1-({2-[(*R*)-3-(4-ethoxy-phenyl)-2-oxo-oxazolidin-5-yl]-ethylamino}-methyl)-9-fluoro-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;
- (*R*)-9-fluoro-1-({2-[(*R*)-2-oxo-3-(4-propyl-phenyl)-oxazolidin-5-yl]-ethylamino}-methyl)-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;
- (*S*)-9-fluoro-1-({2-[(*R*)-2-oxo-3-(4-propyl-phenyl)-oxazolidin-5-yl]-ethylamino}-methyl)-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;
- (*R*)-1-({2-[(*R*)-3-(2,3-dihydro-benzo[1,4]dioxin-6-yl)-2-oxo-oxazolidin-5-yl]-ethylamino}-methyl)-9-fluoro-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;
- (*S*)-1-({2-[(*R*)-3-(2,3-dihydro-benzo[1,4]dioxin-6-yl)-2-oxo-oxazolidin-5-yl]-ethylamino}-methyl)-9-fluoro-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;
- (*R*)-9-fluoro-1-({2-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-pyrido[3,2-*b*][1,4]oxazin-6-yl)-oxazolidin-5-yl]-ethylamino}-methyl)-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;
- (*R*)-9-fluoro-1-({2-[(*S*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-pyrido[3,2-*b*][1,4]oxazin-6-yl)-oxazolidin-5-yl]-ethylamino}-methyl)-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;
- (*S*)-9-fluoro-1-({2-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-pyrido[3,2-*b*][1,4]oxazin-6-yl)-oxazolidin-5-yl]-ethylamino}-methyl)-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;
- (*S*)-9-fluoro-1-({2-[(*S*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-pyrido[3,2-*b*][1,4]oxazin-6-yl)-oxazolidin-5-yl]-ethylamino}-methyl)-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;
- (*S*)-6-{3-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-propylamino}-5,6-dihydro-pyrrolo[1,2,3-*de*]quinoxalin-3-one;
- (*S*)-9-fluoro-1-({2-[(*S*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-ethylamino}-methyl)-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;
- (*R*)-9-fluoro-1-({2-[(*S*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-ethylamino}-methyl)-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;
- (*R*)-9-fluoro-1-({3-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-propylamino}-methyl)-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;
- (*S*)-9-fluoro-1-({3-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-propylamino}-methyl)-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;

- (*R*)-9-fluoro-1-({3-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]oxazin-6-yl)-oxazolidin-5-yl]-propylamino}-methyl)-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;
- (*S*)-9-fluoro-1-({3-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]oxazin-6-yl)-oxazolidin-5-yl]-propylamino}-methyl)-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;
- (*R*)-1-({2-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-ethylamino}-methyl)-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;
- (*S*)-1-({2-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-ethylamino}-methyl)-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;
- (*S*)-6-{2-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-ethylamino}-5,6-dihydro-pyrrolo[1,2,3-*de*]quinoxalin-3-one;
- (*S*)-6-{2-[(*S*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-ethylamino}-5,6-dihydro-pyrrolo[1,2,3-*de*]quinoxalin-3-one;
- (*R*)-6-({2-[(*S*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-ethylamino}-methyl)-5,6-dihydro-pyrrolo[1,2,3-*de*]quinoxalin-3-one;
- (*S*)-6-({2-[(*S*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-ethylamino}-methyl)-5,6-dihydro-pyrrolo[1,2,3-*de*]quinoxalin-3-one;
- (*S*)-7-fluoro-6-{3-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]oxazin-6-yl)-oxazolidin-5-yl]-propylamino}-5,6-dihydro-pyrrolo[1,2,3-*de*]quinoxalin-3-one;
- (*S*)-7-fluoro-6-{3-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-propylamino}-5,6-dihydro-pyrrolo[1,2,3-*de*]quinoxalin-3-one;
- *(R)*-9-fluoro-1-{2-[*(R)*-2-oxo-3-(4-propyl-phenyl)-oxazolidin-5-yl]-ethylamino}-1,2-dihydro-pyrrolo[3,2,1-ij]quinolin-4-one;
- *(S)*-9-fluoro-1-{2-[*(R)*-2-oxo-3-(4-propyl-phenyl)-oxazolidin-5-yl]-ethylamino}-1,2-dihydro-pyrrolo[3,2,1-ij]quinolin-4-one;
- (*R*)-1-({2-[(*S*)-3-(2,3-dihydro-benzo[1,4]dioxin-6-yl)-2-oxo-oxazolidin-5-yl]-ethylamino}-methyl)-9-fluoro-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;
- (*S*)-1-({2-[(*S*)-3-(2,3-dihydro-benzo[1,4]dioxin-6-yl)-2-oxo-oxazolidin-5-yl]-ethylamino}-methyl)-9-fluoro-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;
- (*R*)-1-({2-[(*S*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-ethylamino}-methyl)-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;
- (*S*)-1-({2-[(*S*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-ethylamino}-methyl)-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;

- (*R*)-1-({2-[(*S*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]oxazin-6-yl)-oxazolidin-5-yl]-ethylamino}-methyl)-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;

- (*S*)-1-({2-[(*S*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]oxazin-6-yl)-oxazolidin-5-yl]-ethylamino}-methyl)-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;

- (*R*)-1-({[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-ylmethyl]-amino}-methyl)-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;

- (*S*)-1-({[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-ylmethyl]-amino}-methyl)-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;

- (*R*)-6-{3-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-propylamino}-5,6-dihydro-pyrrolo[1,2,3-*de*]quinoxalin-3-one;

- (*R*)-6-{3-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]oxazin-6-yl)-oxazolidin-5-yl]-propylamino}-5,6-dihydro-pyrrolo[1,2,3-*de*]quinoxalin-3-one;

- (*S*)-7-fluoro-6-((2-hydroxy-ethyl)-{3-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-propyl}-amino)-5,6-dihydro-pyrrolo[1,2,3-*de*]quinoxalin-3-one;

- (*S*)-7-fluoro-6-((2-hydroxy-ethyl)-{3-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]oxazin-6-yl)-oxazolidin-5-yl]-propyl}-amino)-5,6-dihydro-pyrrolo[1,2,3-*de*]quinoxalin-3-one;

- (*R*)-9-fluoro-1-(2-{(3-hydroxy-propyl)-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-ylmethyl]-amino}-ethyl)-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;

- (*S*)-9-fluoro-1-(2-{(3-hydroxy-propyl)-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-ylmethyl]-amino}-ethyl)-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;

- (*R*)-9-fluoro-1-(2-{(2-hydroxy-ethyl)-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-ylmethyl]-amino}-ethyl)-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;

- (*S*)-9-fluoro-1-(2-{(2-hydroxy-ethyl)-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-ylmethyl]-amino}-ethyl)-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;

- (*R*)-9-fluoro-1-{3-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-pyrido[3,2-*b*][1,4]oxazin-6-yl)-oxazolidin-5-yl]-propylamino}-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;

- (*S*)-9-fluoro-1-{3-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-pyrido[3,2-*b*][1,4]oxazin-6-yl)-oxazolidin-5-yl]-propylamino}-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;
- (*S*)-7-fluoro-6-{3-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-pyrido[3,2-*b*][1,4]oxazin-6-yl)-oxazolidin-5-yl]-propylamino}-5,6-dihydro-pyrrolo[1,2,3-*de*]quinoxalin-3-one;
- (*S*)-1-{3-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-propylamino}-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;
- (*S*)-1-{3-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]oxazin-6-yl)-oxazolidin-5-yl]-propylamino}-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;
- (*S*)-1-{3-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-pyrido[3,2-*b*][1,4]oxazin-6-yl)-oxazolidin-5-yl]-propylamino}-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;
- (*R*)-6-{3-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-pyrido[3,2-*b*][1,4]oxazin-6-yl)-oxazolidin-5-yl]-propylamino}-5,6-dihydro-pyrrolo[1,2,3-*de*]quinoxalin-3-one;
- (*S*)-4-({2-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-ethylamino}-methyl)-4,5-dihydro-pyrrolo[3,2,1-*de*][1,5]naphthyridin-7-one;
- (*S*)-4-({2-[(*S*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-ethylamino}-methyl)-4,5-dihydro-pyrrolo[3,2,1-*de*][1,5]naphthyridin-7-one;
- (*R*)-4-({2-[(*S*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-ethylamino}-methyl)-4,5-dihydro-pyrrolo[3,2,1-*de*][1,5]naphthyridin-7-one;
- (*S*)-7-fluoro-6-{3-[(*S*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-propylamino}-5,6-dihydro-pyrrolo[1,2,3-*de*]quinoxalin-3-one;
- (*S*)-7-fluoro-6-{3-[(*S*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]oxazin-6-yl)-oxazolidin-5-yl]-propylamino}-5,6-dihydro-pyrrolo[1,2,3-*de*]quinoxalin-3-one;
- (*R*)-1-({[(*S*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-ylmethyl]-amino}-methyl)-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;
- (*S*)-1-({[(*S*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-ylmethyl]-amino}-methyl)-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;
- (*R*)-1-({[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]oxazin-6-yl)-oxazolidin-5-ylmethyl]-amino}-methyl)-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;
- (*S*)-1-({[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]oxazin-6-yl)-oxazolidin-5-ylmethyl]-amino}-methyl)-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;
- (*R*)-1-({3-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-propylamino}-methyl)-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;

- (*R*)-1-({3-[(*S*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-propylamino}-methyl)-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;

- (*S*)-1-({3-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-propylamino}-methyl)-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;

- (*S*)-1-({3-[(*S*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-propylamino}-methyl)-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;

- (*R*)-3-fluoro-4-{2-[(*S*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-ethylamino}-4,5-dihydro-pyrrolo[3,2,1-*de*][1,5]naphthyridin-7-one;

- (*S*)-3-fluoro-4-{2-[(*S*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-ethylamino}-4,5-dihydro-pyrrolo[3,2,1-*de*][1,5]naphthyridin-7-one;

- (*S*)-1-{3-[(*S*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-propylamino}-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;

- (*S*)-1-{3-[(*S*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]oxazin-6-yl)-oxazolidin-5-yl]-propylamino}-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;

- (*S*)-1-{2-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-ethylamino}-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;

- (*S*)-1-{2-[(*S*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-ethylamino}-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;

- (*S*)-1-{2-[(*S*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]oxazin-6-yl)-oxazolidin-5-yl]-ethylamino}-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;

- (*R*)-9-fluoro-1-[((3-hydroxy-propyl)-{2-[(*S*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-ethyl}-amino)-methyl]-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;

- (*S*)-9-fluoro-1-[((3-hydroxy-propyl)-{2-[(*S*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-ethyl}-amino)-methyl]-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;

- (*R*)-9-fluoro-1-[((2-hydroxy-ethyl)-{2-[(*S*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-ethyl}-amino)-methyl]-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;

- (*S*)-9-fluoro-1-[((2-hydroxy-ethyl)-{2-[(*S*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-ethyl}-amino)-methyl]-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;

- (*R*)-9-fluoro-1-((3-hydroxy-propyl)-{3-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-propyl}-amino)-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;

- (*S*)-9-fluoro-1-((3-hydroxy-propyl)-{3-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-propyl}-amino)-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;

- (*R*)-9-fluoro-1-((2-hydroxy-ethyl)-{3-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-propyl}-amino)-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;

- (*S*)-9-fluoro-1-((2-hydroxy-ethyl)-{3-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-propyl}-amino)-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;

- (*R*)-3-fluoro-4-{3-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-propylamino}-4,5-dihydro-pyrrolo[3,2,1-*de*][1,5]naphthyridin-7-one;

- (*S*)-3-fluoro-4-{3-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-propylamino}-4,5-dihydro-pyrrolo[3,2,1-*de*][1,5]naphthyridin-7-one;

- (*R*)-3-fluoro-4-{3-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]oxazin-6-yl)-oxazolidin-5-yl]-propylamino}-4,5-dihydro-pyrrolo[3,2,1-*de*][1,5]naphthyridin-7-one;

- (*S*)-3-fluoro-4-{3-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]oxazin-6-yl)-oxazolidin-5-yl]-propylamino}-4,5-dihydro-pyrrolo[3,2,1-*de*][1,5]naphthyridin-7-one;

- (*R*)-3-fluoro-4-{3-[(*S*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-propylamino}-4,5-dihydro-pyrrolo[3,2,1-*de*][1,5]naphthyridin-7-one;

- (*S*)-3-fluoro-4-{3-[(*S*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-propylamino}-4,5-dihydro-pyrrolo[3,2,1-*de*][1,5]naphthyridin-7-one;

- (*R*)-3-fluoro-4-{3-[(*S*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]oxazin-6-yl)-oxazolidin-5-yl]-propylamino}-4,5-dihydro-pyrrolo[3,2,1-*de*][1,5]naphthyridin-7-one;

- (*S*)-3-fluoro-4-{3-[(*S*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]oxazin-6-yl)-oxazolidin-5-yl]-propylamino}-4,5-dihydro-pyrrolo[3,2,1-*de*][1,5]naphthyridin-7-one;

- (*R*)-3-fluoro-4-({[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]oxazin-6-yl)-oxazolidin-5-ylmethyl]-amino}-methyl)-4,5-dihydro-pyrrolo[3,2,1-*de*][1,5]naphthyridin-7-one;

- (*S*)-3-fluoro-4-({[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]oxazin-6-yl)-oxazolidin-5-ylmethyl]-amino}-methyl)-4,5-dihydro-pyrrolo[3,2,1-*de*][1,5]naphthyridin-7-one;

- (*R*)-3-fluoro-4-({2-[(*S*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-ethylamino}-methyl)-4,5-dihydro-pyrrolo[3,2,1-*de*][1,5]naphthyridin-7-one;

- (*S*)-3-fluoro-4-({2-[(*S*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-ethylamino}-methyl)-4,5-dihydro-pyrrolo[3,2,1-*de*][1,5]naphthyridin-7-one;

- (*R*)-3-fluoro-4-({[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-ylmethyl]-amino}-methyl)-4,5-dihydro-pyrrolo[3,2,1-*de*][1,5]naphthyridin-7-one;

- (*S*)-3-fluoro-4-({[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-ylmethyl]-amino}-methyl)-4,5-dihydro-pyrrolo[3,2,1-*de*][1,5]naphthyridin-7-one;

- (*R*)-3-fluoro-4-({[(*S*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-ylmethyl]-amino}-methyl)-4,5-dihydro-pyrrolo[3,2,1-*de*][1,5]naphthyridin-7-one;

- (*S*)-3-fluoro-4-({[(*S*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-ylmethyl]-amino}-methyl)-4,5-dihydro-pyrrolo[3,2,1-*de*][1,5]naphthyridin-7-one;

- (*R*)-3-fluoro-4-({2-[(*S*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]oxazin-6-yl)-oxazolidin-5-yl]-ethylamino}-methyl)-4,5-dihydro-pyrrolo[3,2,1-*de*][1,5]naphthyridin-7-one;

- (*S*)-3-fluoro-4-({2-[(*S*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]oxazin-6-yl)-oxazolidin-5-yl]-ethylamino}-methyl)-4,5-dihydro-pyrrolo[3,2,1-*de*][1,5]naphthyridin-7-one;

- (*R*)-3-fluoro-4-({2-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]oxazin-6-yl)-oxazolidin-5-yl]-ethylamino}-methyl)-4,5-dihydro-pyrrolo[3,2,1-*de*][1,5]naphthyridin-7-one;

- (*S*)-3-fluoro-4-({2-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]oxazin-6-yl)-oxazolidin-5-yl]-ethylamino}-methyl)-4,5-dihydro-pyrrolo[3,2,1-*de*][1,5]naphthyridin-7-one;

- (*R*)-7-fluoro-6-{3-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]oxazin-6-yl)-oxazolidin-5-yl]-propylamino}-5,6-dihydro-pyrrolo[1,2,3-*de*]quinoxalin-3-one;

- (*R*)-7-fluoro-6-{3-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-propylamino}-5,6-dihydro-pyrrolo[1,2,3-*de*]quinoxalin-3-one;

- (*R*)-6-({[(*S*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-ylmethyl]-amino}-methyl)-5,6-dihydro-pyrrolo[1,2,3-*de*]quinoxalin-3-one;

- (*S*)-6-({[(*S*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-ylmethyl]-amino}-methyl)-5,6-dihydro-pyrrolo[1,2,3-*de*]quinoxalin-3-one;
- (*R*)-1-{2-[(*S*)-3-(2,3-dihydro-benzo[1,4]dioxin-6-yl)-2-oxo-oxazolidin-5-yl]-ethylamino}-9-fluoro-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;
- (*S*)-1-{2-[(*S*)-3-(2,3-dihydro-benzo[1,4]dioxin-6-yl)-2-oxo-oxazolidin-5-yl]-ethylamino}-9-fluoro-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;
- (*R*)-*N*-((*S*)-9-fluoro-4-oxo-1,2-dihydro-4*H*-pyrrolo[3,2,1-*ij*]quinolin-1-yl)-3-hydroxy-3-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-propionamide;
- (*R*)-*N*-((*S*)-9-fluoro-4-oxo-1,2-dihydro-4*H*-pyrrolo[3,2,1-*ij*]quinolin-1-yl)-3-hydroxy-3-[(*S*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-propionamide;
- (*S*)-*N*-((*S*)-9-fluoro-4-oxo-1,2-dihydro-4*H*-pyrrolo[3,2,1-*ij*]quinolin-1-yl)-3-hydroxy-3-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-propionamide;
- (*S*)-*N*-((*S*)-9-fluoro-4-oxo-1,2-dihydro-4*H*-pyrrolo[3,2,1-*ij*]quinolin-1-yl)-3-hydroxy-3-[(*S*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-propionamide;
- (*R*)-1-{3-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-propylamino}-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;
- (*R*)-6-({[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-ylmethyl]-amino}-methyl)-5,6-dihydro-pyrrolo[1,2,3-*de*]quinoxalin-3-one;
- (*S*)-6-({[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-ylmethyl]-amino}-methyl)-5,6-dihydro-pyrrolo[1,2,3-*de*]quinoxalin-3-one;
- (*R*)-7-fluoro-2-methoxy-6-{3-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]oxazin-6-yl)-oxazolidin-5-yl]-propylamino}-5,6-dihydro-pyrrolo[1,2,3-*de*]quinoxalin-3-one;
- (*R*)-7-fluoro-2-methoxy-6-{3-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-propylamino}-5,6-dihydro-pyrrolo[1,2,3-*de*]quinoxalin-3-one;
- (*1R*)-9-fluoro-1-{(*3R*)-3-hydroxy-3-[(*5R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-propylamino}-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;

- (*1R*)-9-fluoro-1-{(*3R*)-3-hydroxy-3-[(*5S*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-propylamino}-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;

- (*1R*)-9-fluoro-1-{(*3S*)-3-hydroxy-3-[(*5R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-propylamino}-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;

- (*1R*)-9-fluoro-1-{(*3S*)-3-hydroxy-3-[(*5S*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-propylamino}-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;

- (*1S*)-9-fluoro-1-{(*3R*)-3-hydroxy-3-[(*5R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-propylamino}-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;

- (*1S*)-9-fluoro-1-{(*3R*)-3-hydroxy-3-[(*5S*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-propylamino}-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;

- (*1S*)-9-fluoro-1-{(*3S*)-3-hydroxy-3-[(*5R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-propylamino}-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;

- (*1S*)-9-fluoro-1-{(*3S*)-3-hydroxy-3-[(*5S*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-propylamino}-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;

- *(S)*-6-{3-[*(R)*-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-propylamino}-1,2,5,6-tetrahydro-pyrrolo[1,2,3-*de*]quinoxalin-3-one;

as well as to the salts (in particular the pharmaceutically acceptable salts) thereof.

xc) Yet further particularly preferred compounds of formula I as defined in embodiment ii) or vi) are the following compounds:

- 6-{3-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-pyrido[3,2-*b*][1,4]thiazin-6-yl)-oxazolidin-5-yl]-propylamino}-5,6-dihydro-pyrrolo[1,2,3-*de*]quinoxalin-3-one;

- 9-bromo-1-{3-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-propylamino}-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;

- 4-oxo-1-{3-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-propylamino}-1,2-dihydro-4*H*-pyrrolo[3,2,1-*ij*]quinoline-9-carbonitrile;

- 4-oxo-1-{3-[*(R)*-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-pyrido[3,2-*b*][1,4]thiazin-6-yl)-oxazolidin-5-yl]-propylamino}-1,2-dihydro-4*H*-pyrrolo[3,2,1-*ij*]quinoline-9-carbonitrile;
- *(R)*-4-oxo-1-{3-[(*S*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-propylamino}-1,2-dihydro-4*H*-pyrrolo[3,2,1-*ij*]quinoline-7-carboxylic acid ethyl ester;
- (*R*)-7-hydroxymethyl-1-{3-[(*S*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-propylamino}-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;
- (*R*)-4-oxo-1-{3-[(*S*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-propylamino}-1,2-dihydro-4*H*-pyrrolo[3,2,1-*ij*]quinoline-7-carboxylic acid;
- (*R*)-7-dimethylaminomethyl-1-{3-[(*S*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-propylamino}-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;
- (*R*)-1-{3-[(*S*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-propylamino}-7-pyrrolidin-1-ylmethyl-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;
- 9-fluoro-1-{3-[(*S*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-pyrido[3,2-*b*][1,4]oxazin-6-yl)-oxazolidin-5-yl]-propylamino}-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;
- 9-fluoro-1-{3-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-pyrido[3,2-*b*][1,4]thiazin-6-yl)-oxazolidin-5-yl]-propylamino}-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;
- 9-fluoro-1-{3-[(*S*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-pyrido[3,2-*b*][1,4]thiazin-6-yl)-oxazolidin-5-yl]-propylamino}-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;
- (*R*)-9-fluoro-1-{3-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-propylamino}-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;
- (*S*)-9-fluoro-1-{3-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-propylamino}-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;
- (*R*)-9-fluoro-1-{3-[(*S*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-propylamino}-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;
- (*S*)-9-fluoro-1-{3-[(*S*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-propylamino}-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;
- (*R*)-7-fluoro-6-{3-[(*S*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-pyrido[3,2-*b*][1,4]oxazin-6-yl)-oxazolidin-5-yl]-propylamino}-5,6-dihydro-pyrrolo[1,2,3-*de*]quinoxalin-3-one;
- (*R*)-7-fluoro-6-{3-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-pyrido[3,2-*b*][1,4]thiazin-6-yl)-oxazolidin-5-yl]-propylamino}-5,6-dihydro-pyrrolo[1,2,3-*de*]quinoxalin-3-one;
- (*R*)-1-{3-[(*S*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-propylamino}-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;

- (*R*)-1-{3-[(*S*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]oxazin-6-yl)-oxazolidin-5-yl]-propylamino}-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;

- (*R*)-1-{3-[(*S*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-pyrido[3,2-*b*][1,4]oxazin-6-yl)-oxazolidin-5-yl]-propylamino}-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;

- (*S*)-1-{3-[(*S*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-pyrido[3,2-*b*][1,4]thiazin-6-yl)-oxazolidin-5-yl]-propylamino}-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;

- (*S*)-1-{3-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-pyrido[3,2-*b*][1,4]thiazin-6-yl)-oxazolidin-5-yl]-propylamino}-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;

- (*R*)-3-fluoro-4-{3-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-propylamino}-4,5-dihydro-pyrrolo[3,2,1-*de*][1,5]naphthyridin-7-one;

- (*R*)-3-fluoro-4-{3-[(*S*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-propylamino}-4,5-dihydro-pyrrolo[3,2,1-*de*][1,5]naphthyridin-7-one;

- (*R*)-3-fluoro-4-{3-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]oxazin-6-yl)-oxazolidin-5-yl]-propylamino}-4,5-dihydro-pyrrolo[3,2,1-*de*][1,5]naphthyridin-7-one;

- (*R*)-3-fluoro-4-{3-[(*S*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]oxazin-6-yl)-oxazolidin-5-yl]-propylamino}-4,5-dihydro-pyrrolo[3,2,1-*de*][1,5]naphthyridin-7-one;

- (*R*)-3-fluoro-4-{3-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-pyrido[3,2-*b*][1,4]thiazin-6-yl)-oxazolidin-5-yl]-propylamino}-4,5-dihydro-pyrrolo[3,2,1-*de*][1,5]naphthyridin-7-one;

- (*R*)-3-fluoro-4-{3-[(*S*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-pyrido[3,2-*b*][1,4]thiazin-6-yl)-oxazolidin-5-yl]-propylamino}-4,5-dihydro-pyrrolo[3,2,1-*de*][1,5]naphthyridin-7-one;

- (*R*)-3-fluoro-4-{3-[(*S*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-pyrido[3,2-*b*][1,4]oxazin-6-yl)-oxazolidin-5-yl]-propylamino}-4,5-dihydro-pyrrolo[3,2,1-*de*][1,5]naphthyridin-7-one;

- (*S*)-3-fluoro-4-{3-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-propylamino}-4,5-dihydro-pyrrolo[3,2,1-*de*][1,5]naphthyridin-7-one;

- (*S*)-3-fluoro-4-{3-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]oxazin-6-yl)-oxazolidin-5-yl]-propylamino}-4,5-dihydro-pyrrolo[3,2,1-*de*][1,5]naphthyridin-7-one;

- (*S*)-3-fluoro-4-{3-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-pyrido[3,2-*b*][1,4]thiazin-6-yl)-oxazolidin-5-yl]-propylamino}-4,5-dihydro-pyrrolo[3,2,1-*de*][1,5]naphthyridin-7-one;

- (*S*)-3-fluoro-4-{3-[(*S*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-propylamino}-4,5-dihydro-pyrrolo[3,2,1-*de*][1,5]naphthyridin-7-one;

- (*S*)-3-fluoro-4-{3-[(*S*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]oxazin-6-yl)-oxazolidin-5-yl]-propylamino}-4,5-dihydro-pyrrolo[3,2,1-*de*][1,5]naphthyridin-7-one;

- (*S*)-3-fluoro-4-{3-[(*S*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-pyrido[3,2-*b*][1,4]thiazin-6-yl)-oxazolidin-5-yl]-propylamino}-4,5-dihydro-pyrrolo[3,2,1-*de*][1,5]naphthyridin-7-one;
- (*S*)-3-fluoro-4-{3-[(*S*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-pyrido[3,2-*b*][1,4]oxazin-6-yl)-oxazolidin-5-yl]-propylamino}-4,5-dihydro-pyrrolo[3,2,1-*de*][1,5]naphthyridin-7-one;
- 9-methyl-1-{3-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-propylamino}-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;
- 9-fluoro-1-(methyl-{3-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-propyl}-amino)-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;
- 6-({2-[(*S*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]oxazin-6-yl)-oxazolidin-5-yl]-ethylamino}-methyl)-5,6-dihydro-pyrrolo[1,2,3-*de*]quinoxalin-3-one;
- (*RS*)-6-({2-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]oxazin-6-yl)-oxazolidin-5-yl]-ethylamino}-methyl)-5,6-dihydro-pyrrolo[1,2,3-*de*]quinoxalin-3-one;
- 6-({2-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-ethylamino}-methyl)-5,6-dihydro-pyrrolo[1,2,3-*de*]quinoxalin-3-one;
- (*R*)-1-{2-[(*S*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]oxazin-6-yl)-oxazolidin-5-yl]-ethylamino}-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;
- (*R*)-1-{2-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-ethylamino}-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;
- 9-fluoro-1-{4-[(*S*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-butylamino}-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;
- (*S*)-7-fluoro-6-{3-[(*S*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-propylamino}-1,2,5,6-tetrahydro-pyrrolo[1,2,3-*de*]quinoxalin-3-one;
- (*1R*,2R**)-4-oxo-1-{3-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-propylamino}-1,2-dihydro-4*H*-pyrrolo[3,2,1-*ij*]quinoline-2-carboxylic acid methyl ester;
- (*1R*,2R**)-4-oxo-1-{3-[(*S*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-propylamino}-1,2-dihydro-4*H*-pyrrolo[3,2,1-*ij*]quinoline-2-carboxylic acid methyl ester;
- (*1R*,2R**)-2-hydroxymethyl-1-{3-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-propylamino}-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;

- (*1R*,2R**)-2-hydroxymethyl-1-{3-[(*S*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-propylamino}-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;

- (*1R*,2R**)-2-methoxymethyl-1-{3-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-propylamino}-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;

- (*1R*,2S**)-2-methyl-1-{3-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-propylamino}-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;

- (*1R*,2S**)-2-methyl-1-{3-[(*S*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-propylamino}-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;

- (*1R*,2S**)-2-methyl-1-{3-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-pyrido[3,2-*b*][1,4]thiazin-6-yl)-oxazolidin-5-yl]-propylamino}-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;

- (*1R*,2S**)-2-methyl-1-{3-[(*S*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-pyrido[3,2-*b*][1,4]thiazin-6-yl)-oxazolidin-5-yl]-propylamino}-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;

- (*1R*,2R**)-2-(1-hydroxy-1-methyl-ethyl)-1-{3-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-propylamino}-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;

- *(R)*-7-fluoro-6-{3-[*(R)*-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-pyrido[3,2-*b*][1,4]thiazin-6-yl)-oxazolidin-5-yl]-propylamino}-1,2,5,6-tetrahydro-pyrrolo[1,2,3-*de*]quinoxalin-3-one;

- *N*-(9-fluoro-4-oxo-1,2-dihydro-4*H*-pyrrolo[3,2,1-*ij*]quinolin-1-yl)-*N*-{3-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-propyl}-acetamide;

- *(S)*-4-hydroxy-4-({2-[(*S*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-ethylamino}-methyl)-4,5-dihydro-pyrrolo[3,2,1-*de*][1,5]naphthyridin-7-one;

- 9-fluoro-1-hydroxy-1-({2-[*(S)*-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-ethylamino}-methyl)-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;

as well as the salts (in particular the pharmaceutically acceptable salts) thereof.

xci) Yet a further object of this invention thus relates to the following compounds of formula I as defined in embodiment ii) or vi):

- (*R*)-6-{3-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-pyrido[3,2-*b*][1,4]thiazin-6-yl)-oxazolidin-5-yl]-propylamino}-5,6-dihydro-pyrrolo[1,2,3-*de*]quinoxalin-3-one;

- (*S*)-6-{3-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-pyrido[3,2-*b*][1,4]thiazin-6-yl)-oxazolidin-5-yl]-propylamino}-5,6-dihydro-pyrrolo[1,2,3-*de*]quinoxalin-3-one;
- *(R)*-9-bromo-1-{3-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-propylamino}-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;
- *(S)*-9-bromo-1-{3-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-propylamino}-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;
- *(R)*-4-oxo-1-{3-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-propylamino}-1,2-dihydro-4*H*-pyrrolo[3,2,1-*ij*]quinoline-9-carbonitrile;
- *(S)*-4-oxo-1-{3-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-propylamino}-1,2-dihydro-4*H*-pyrrolo[3,2,1-*ij*]quinoline-9-carbonitrile;
- *(R)*-4-oxo-1-{3-[*(R)*-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-pyrido[3,2-*b*][1,4]thiazin-6-yl)-oxazolidin-5-yl]-propylamino}-1,2-dihydro-4*H*-pyrrolo[3,2,1-*ij*]quinoline-9-carbonitrile;
- *(S)*-4-oxo-1-{3-[*(R)*-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-pyrido[3,2-*b*][1,4]thiazin-6-yl)-oxazolidin-5-yl]-propylamino}-1,2-dihydro-4*H*-pyrrolo[3,2,1-*ij*]quinoline-9-carbonitrile;
- *(R)*-4-oxo-1-{3-[(*S*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-propylamino}-1,2-dihydro-4*H*-pyrrolo[3,2,1-*ij*]quinoline-7-carboxylic acid ethyl ester;
- (*R*)-7-hydroxymethyl-1-{3-[(*S*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-propylamino}-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;
- (*R*)-4-oxo-1-{3-[(*S*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-propylamino}-1,2-dihydro-4*H*-pyrrolo[3,2,1-*ij*]quinoline-7-carboxylic acid;
- (*R*)-7-dimethylaminomethyl-1-{3-[(*S*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-propylamino}-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;
- (*R*)-1-{3-[(*S*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-propylamino}-7-pyrrolidin-1-ylmethyl-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;
- (*R*)-9-fluoro-1-{3-[(*S*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-pyrido[3,2-*b*][1,4]oxazin-6-yl)-oxazolidin-5-yl]-propylamino}-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;
- (*S*)-9-fluoro-1-{3-[(*S*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-pyrido[3,2-*b*][1,4]oxazin-6-yl)-oxazolidin-5-yl]-propylamino}-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;
- (*R*)-9-fluoro-1-{3-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-pyrido[3,2-*b*][1,4]thiazin-6-yl)-oxazolidin-5-yl]-propylamino}-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;
- (*S*)-9-fluoro-1-{3-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-pyrido[3,2-*b*][1,4]thiazin-6-yl)-oxazolidin-5-yl]-propylamino}-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;

- (*R*)-9-fluoro-1-{3-[(*S*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-pyrido[3,2-*b*][1,4]thiazin-6-yl)-oxazolidin-5-yl]-propylamino}-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;
- (*S*)-9-fluoro-1-{3-[(*S*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-pyrido[3,2-*b*][1,4]thiazin-6-yl)-oxazolidin-5-yl]-propylamino}-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;
- (*R*)-9-fluoro-1-{3-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-propylamino}-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;
- (*S*)-9-fluoro-1-{3-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-propylamino}-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;
- (*R*)-9-fluoro-1-{3-[(*S*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-propylamino}-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;
- (*S*)-9-fluoro-1-{3-[(*S*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-propylamino}-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;
- (*R*)-7-fluoro-6-{3-[(*S*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-pyrido[3,2-*b*][1,4]oxazin-6-yl)-oxazolidin-5-yl]-propylamino}-5,6-dihydro-pyrrolo[1,2,3-*de*]quinoxalin-3-one;
- (*R*)-7-fluoro-6-{3-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-pyrido[3,2-*b*][1,4]thiazin-6-yl)-oxazolidin-5-yl]-propylamino}-5,6-dihydro-pyrrolo[1,2,3-*de*]quinoxalin-3-one;
- (*R*)-1-{3-[(*S*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-propylamino}-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;
- (*R*)-1-{3-[(*S*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]oxazin-6-yl)-oxazolidin-5-yl]-propylamino}-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;
- (*R*)-1-{3-[(*S*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-pyrido[3,2-*b*][1,4]oxazin-6-yl)-oxazolidin-5-yl]-propylamino}-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;
- (*S*)-1-{3-[(*S*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-pyrido[3,2-*b*][1,4]thiazin-6-yl)-oxazolidin-5-yl]-propylamino}-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;
- (*S*)-1-{3-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-pyrido[3,2-*b*][1,4]thiazin-6-yl)-oxazolidin-5-yl]-propylamino}-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;
- (*R*)-3-fluoro-4-{3-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-propylamino}-4,5-dihydro-pyrrolo[3,2,1-*de*][1,5]naphthyridin-7-one;
- (*R*)-3-fluoro-4-{3-[(*S*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-propylamino}-4,5-dihydro-pyrrolo[3,2,1-*de*][1,5]naphthyridin-7-one;
- (*R*)-3-fluoro-4-{3-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]oxazin-6-yl)-oxazolidin-5-yl]-propylamino}-4,5-dihydro-pyrrolo[3,2,1-*de*][1,5]naphthyridin-7-one;

- (*R*)-3-fluoro-4-{3-[(*S*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]oxazin-6-yl)-oxazolidin-5-yl]-propylamino}-4,5-dihydro-pyrrolo[3,2,1-*de*][1,5]naphthyridin-7-one;
- (*R*)-3-fluoro-4-{3-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-pyrido[3,2-*b*][1,4]thiazin-6-yl)-oxazolidin-5-yl]-propylamino}-4,5-dihydro-pyrrolo[3,2,1-*de*][1,5]naphthyridin-7-one;
- (*R*)-3-fluoro-4-{3-[(*S*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-pyrido[3,2-*b*][1,4]thiazin-6-yl)-oxazolidin-5-yl]-propylamino}-4,5-dihydro-pyrrolo[3,2,1-*de*][1,5]naphthyridin-7-one;
- (*R*)-3-fluoro-4-{3-[(*S*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-pyrido[3,2-*b*][1,4]oxazin-6-yl)-oxazolidin-5-yl]-propylamino}-4,5-dihydro-pyrrolo[3,2,1-*de*][1,5]naphthyridin-7-one;
- (*S*)-3-fluoro-4-{3-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-propylamino}-4,5-dihydro-pyrrolo[3,2,1-*de*][1,5]naphthyridin-7-one;
- (*S*)-3-fluoro-4-{3-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]oxazin-6-yl)-oxazolidin-5-yl]-propylamino}-4,5-dihydro-pyrrolo[3,2,1-*de*][1,5]naphthyridin-7-one;
- (*S*)-3-fluoro-4-{3-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-pyrido[3,2-*b*][1,4]thiazin-6-yl)-oxazolidin-5-yl]-propylamino}-4,5-dihydro-pyrrolo[3,2,1-*de*][1,5]naphthyridin-7-one;
- (*S*)-3-fluoro-4-{3-[(*S*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-propylamino}-4,5-dihydro-pyrrolo[3,2,1-*de*][1,5]naphthyridin-7-one;
- (*S*)-3-fluoro-4-{3-[(*S*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]oxazin-6-yl)-oxazolidin-5-yl]-propylamino}-4,5-dihydro-pyrrolo[3,2,1-*de*][1,5]naphthyridin-7-one;
- (*S*)-3-fluoro-4-{3-[(*S*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-pyrido[3,2-*b*][1,4]thiazin-6-yl)-oxazolidin-5-yl]-propylamino}-4,5-dihydro-pyrrolo[3,2,1-*de*][1,5]naphthyridin-7-one;
- (*S*)-3-fluoro-4-{3-[(*S*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-pyrido[3,2-*b*][1,4]oxazin-6-yl)-oxazolidin-5-yl]-propylamino}-4,5-dihydro-pyrrolo[3,2,1-*de*][1,5]naphthyridin-7-one;
- (*R*)-9-methyl-1-{3-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-propylamino}-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;
- (*S*)-9-methyl-1-{3-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-propylamino}-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;
- (*R*)-9-fluoro-1-(methyl-{3-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-propyl}-amino)-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;
- (*S*)-9-fluoro-1-(methyl-{3-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-propyl}-amino)-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;
- (*R*)-6-({2-[(*S*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]oxazin-6-yl)-oxazolidin-5-yl]-ethylamino}-methyl)-5,6-dihydro-pyrrolo[1,2,3-*de*]quinoxalin-3-one;

- (*S*)-6-({2-[(*S*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]oxazin-6-yl)-oxazolidin-5-yl]-ethylamino}-methyl)-5,6-dihydro-pyrrolo[1,2,3-*de*]quinoxalin-3-one;
- (*R*)-6-({2-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]oxazin-6-yl)-oxazolidin-5-yl]-ethylamino}-methyl)-5,6-dihydro-pyrrolo[1,2,3-*de*]quinoxalin-3-one;
- (*S*)-6-({2-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]oxazin-6-yl)-oxazolidin-5-yl]-ethylamino}-methyl)-5,6-dihydro-pyrrolo[1,2,3-*de*]quinoxalin-3-one;
- (*R*)-6-({2-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-ethylamino}-methyl)-5,6-dihydro-pyrrolo[1,2,3-*de*]quinoxalin-3-one;
- (*S*)-6-({2-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-ethylamino}-methyl)-5,6-dihydro-pyrrolo[1,2,3-*de*]quinoxalin-3-one;
- (*R*)-1-{2-[(*S*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]oxazin-6-yl)-oxazolidin-5-yl]-ethylamino}-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;
- (*R*)-1-{2-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-ethylamino}-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;
- (*R*)-9-fluoro-1-{4-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-butylamino}-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;
- (*R*)-9-fluoro-1-{4-[(*S*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-butylamino}-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;
- (*S*)-9-fluoro-1-{4-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-butylamino}-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;
- (*S*)-9-fluoro-1-{4-[(*S*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-butylamino}-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;
- (*S*)-7-fluoro-6-{3-[(*S*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-propylamino}-1,2,5,6-tetrahydro-pyrrolo[1,2,3-*de*]quinoxalin-3-one;
- (*1R,2R*)-4-oxo-1-{3-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-propylamino}-1,2-dihydro-4*H*-pyrrolo[3,2,1-*ij*]quinoline-2-carboxylic acid methyl ester;
- (*1S,2S*)-4-oxo-1-{3-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-propylamino}-1,2-dihydro-4*H*-pyrrolo[3,2,1-*ij*]quinoline-2-carboxylic acid methyl ester;
- (*1R,2R*)-4-oxo-1-{3-[(*S*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-propylamino}-1,2-dihydro-4*H*-pyrrolo[3,2,1-*ij*]quinoline-2-carboxylic acid methyl ester;

- (*1S,2S*)-4-oxo-1-{3-[(*S*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-propylamino}-1,2-dihydro-4*H*-pyrrolo[3,2,1-*ij*]quinoline-2-carboxylic acid methyl ester;

- (*1R,2R*)-2-hydroxymethyl-1-{3-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-propylamino}-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;

- (*1S,2S*)-2-hydroxymethyl-1-{3-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-propylamino}-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;

- (*1R,2R*)-2-hydroxymethyl-1-{3-[(*S*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-propylamino}-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;

- (*1S,2S*)-2-hydroxymethyl-1-{3-[(*S*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-propylamino}-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;

- (*1R,2R*)-2-methoxymethyl-1-{3-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-propylamino}-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;

- (*1S,2S*)-2-methoxymethyl-1-{3-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-propylamino}-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;

- (*1R,2S*)-2-methyl-1-{3-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-propylamino}-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;

- (*1R,2R*)-2-methyl-1-{3-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-propylamino}-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;

- (*1R,2S*)-2-methyl-1-{3-[(*S*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-propylamino}-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;

- (*1R,2R*)-2-methyl-1-{3-[(*S*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-propylamino}-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;

- (*1S,2S*)-2-methyl-1-{3-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-pyrido[3,2-*b*][1,4]thiazin-6-yl)-oxazolidin-5-yl]-propylamino}-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;

- (*1S,2R*)-2-methyl-1-{3-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-pyrido[3,2-*b*][1,4]thiazin-6-yl)-oxazolidin-5-yl]-propylamino}-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;

- (*1R,2S*)-2-methyl-1-{3-[(*S*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-pyrido[3,2-*b*][1,4]thiazin-6-yl)-oxazolidin-5-yl]-propylamino}-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;

- (*1S,2R*)-2-methyl-1-{3-[(*S*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-pyrido[3,2-*b*][1,4]thiazin-6-yl)-oxazolidin-5-yl]-propylamino}-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;

- (*1R,2R*)-2-(1-hydroxy-1-methyl-ethyl)-1-{3-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-propylamino}-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;

- (*1S,2S*)-2-(1-hydroxy-1-methyl-ethyl)-1-{3-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-propylamino}-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;

- *(R)*-7-fluoro-6-{3-[*(R)*-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-pyrido[3,2-*b*][1,4]thiazin-6-yl)-oxazolidin-5-yl]-propylamino}-1,2,5,6-tetrahydro-pyrrolo[1,2,3-*de*]quinoxalin-3-one;

- *N*-((*R*)-9-fluoro-4-oxo-1,2-dihydro-4*H*-pyrrolo[3,2,1-*ij*]quinolin-1-yl)-*N*-{3-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-propyl}-acetamide;

- *N*-((*S*)-9-fluoro-4-oxo-1,2-dihydro-4*H*-pyrrolo[3,2,1-*ij*]quinolin-1-yl)-*N*-{3-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-propyl}-acetamide;

- *(S)*-4-hydroxy-4-({2-[(*S*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-ethylamino}-methyl)-4,5-dihydro-pyrrolo[3,2,1-*de*][1,5]naphthyridin-7-one;

- *(R)*-9-fluoro-1-hydroxy-1-({2-[*(S)*-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-ethylamino}-methyl)-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;

- *(S)*-9-fluoro-1-hydroxy-1-({2-[*(S)*-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-ethylamino}-methyl)-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;

as well as to the salts (in particular the pharmaceutically acceptable salts) thereof.

xcii) Yet other particularly preferred compounds of formula I as defined in embodiment i) or v) are the following compounds:

- 1-({[(*S*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-pyrido[3,2-*b*][1,4]thiazin-6-yl)-oxazolidin-5-ylmethyl]-amino}-methyl)-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;

- 1-({2-[(*S*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-pyrido[3,2-*b*][1,4]thiazin-6-yl)-oxazolidin-5-yl]-ethylamino}-methyl)-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;

- 9-chloro-1-{3-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-pyrido[3,2-*b*][1,4]thiazin-6-yl)-oxazolidin-5-yl]-propylamino}-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;

- 9-chloro-1-{3-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-propylamino}-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;

- 9-ethyl-1-{3-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-propylamino}-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;

- 9-ethynyl-1-{3-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-propylamino}-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;

- (*1R*,2R**)-9-fluoro-4-oxo-1-{3-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-propylamino}-1,2-dihydro-4*H*-pyrrolo[3,2,1-*ij*]quinoline-2-carboxylic acid methyl ester;

- (*1R*,2R**)-9-fluoro-2-hydroxymethyl-1-{3-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-propylamino}-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;

- (*1R*,2S**)-9-fluoro-2-methyl-1-{3-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-propylamino}-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;

- (*1R*,2S**)-9-fluoro-2-methyl-1-{3-[(*S*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-propylamino}-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;

- (*1R*,2S**)-9-fluoro-2-methyl-1-{3-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-pyrido[3,2-*b*][1,4]thiazin-6-yl)-oxazolidin-5-yl]-propylamino}-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;

- (*1R*,2R**)-9-fluoro-4-oxo-1-{3-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-propylamino}-1,2-dihydro-4*H*-pyrrolo[3,2,1-*ij*]quinoline-2-carboxylic acid;

- 9-fluoro-1-({2-[(*S*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]oxazin-6-yl)-oxazolidin-5-yl]-ethylamino}-methyl)-1,2,5,6-tetrahydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;

- (*1R*,2S**)-2-aminomethyl-9-fluoro-1-{3-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-propylamino}-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;

- (*S*)-9-fluoro-1-{3-[(*S*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-pyrido[3,2-*b*][1,4]oxazin-6-yl)-oxazolidin-5-yl]-propylamino}-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;

- (*S*)-9-fluoro-1-{3-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-pyrido[3,2-*b*][1,4]oxazin-6-yl)-oxazolidin-5-yl]-propylamino}-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;

- (*S*)-9-fluoro-1-{3-[(*S*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-pyrido[3,2-*b*][1,4]thiazin-6-yl)-oxazolidin-5-yl]-propylamino}-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;

- (*S*)-9-fluoro-1-{3-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-pyrido[3,2-*b*][1,4]thiazin-6-yl)-oxazolidin-5-yl]-propylamino}-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;

- (*R*)-9-fluoro-1-{3-[(*S*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-pyrido[3,2-*b*][1,4]oxazin-6-yl)-oxazolidin-5-yl]-propylamino}-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;
- (*R*)-9-fluoro-1-{3-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-pyrido[3,2-*b*][1,4]oxazin-6-yl)-oxazolidin-5-yl]-propylamino}-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;
- (*R*)-9-fluoro-1-{3-[(*S*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-pyrido[3,2-*b*][1,4]thiazin-6-yl)-oxazolidin-5-yl]-propylamino}-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;
- (*R*)-9-fluoro-1-{3-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-pyrido[3,2-*b*][1,4]thiazin-6-yl)-oxazolidin-5-yl]-propylamino}-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;
- 9-fluoro-1-({2-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-pyrido[3,2-*b*][1,4]thiazin-6-yl)-oxazolidin-5-yl]-ethylamino}-methyl)-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;
- 9-fluoro-1-({2-[(*S*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-pyrido[3,2-*b*][1,4]thiazin-6-yl)-oxazolidin-5-yl]-ethylamino}-methyl)-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;
- 7-fluoro-6-{3-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-pyrido[3,2-*b*][1,4]thiazin-6-yl)-oxazolidin-5-yl]-propylamino}-5,6-dihydro-pyrrolo[1,2,3-*de*]quinoxalin-3-one;
- 7-fluoro-6-{3-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-pyrido[3,2-*b*][1,4]thiazin-6-yl)-oxazolidin-5-yl]-propylamino}-1,2,5,6-tetrahydro-pyrrolo[1,2,3-*de*]quinoxalin-3-one;
- 7-fluoro-6-{3-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-pyrido[3,2-*b*][1,4]thiazin-6-yl)-oxazolidin-5-yl]-propylamino}-1-methyl-1,2,5,6-tetrahydro-pyrrolo[1,2,3-*de*]quinoxalin-3-one;
- 7-fluoro-6-{3-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-pyrido[3,2-*b*][1,4]thiazin-6-yl)-oxazolidin-5-yl]-propylamino}-1-(3-hydroxypropyl)-1,2,5,6-tetrahydro-pyrrolo[1,2,3-*de*]quinoxalin-3-one;

as well as the salts (in particular the pharmaceutically acceptable salts) thereof.

xciii) Yet another object of this invention thus relates to the following compounds of formula I as defined in embodiment i) or v):

- (*R*)-1-({[(*S*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-pyrido[3,2-*b*][1,4]thiazin-6-yl)-oxazolidin-5-ylmethyl]-amino}-methyl)-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;
- (*S*)-1-({[(*S*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-pyrido[3,2-*b*][1,4]thiazin-6-yl)-oxazolidin-5-ylmethyl]-amino}-methyl)-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;
- (*R*)-1-({2-[(*S*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-pyrido[3,2-*b*][1,4]thiazin-6-yl)-oxazolidin-5-yl]-ethylamino}-methyl)-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;

- (*S*)-1-({2-[(*S*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-pyrido[3,2-*b*][1,4]thiazin-6-yl)-oxazolidin-5-yl]-ethylamino}-methyl)-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;
- (*R*)-9-chloro-1-{3-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-pyrido[3,2-*b*][1,4]thiazin-6-yl)-oxazolidin-5-yl]-propylamino}-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;
- (*S*)-9-chloro-1-{3-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-pyrido[3,2-*b*][1,4]thiazin-6-yl)-oxazolidin-5-yl]-propylamino}-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;
- *(R)*-9-chloro-1-{3-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-propylamino}-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;
- *(S)*-9-chloro-1-{3-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-propylamino}-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;
- (*R*)-9-ethyl-1-{3-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-propylamino}-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;
- (*S*)-9-ethyl-1-{3-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-propylamino}-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;
- (*R*)-9-ethynyl-1-{3-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-propylamino}-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;
- (*S*)-9-ethynyl-1-{3-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-propylamino}-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;
- (*1R,2R*)-9-fluoro-4-oxo-1-{3-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-propylamino}-1,2-dihydro-4*H*-pyrrolo[3,2,1-*ij*]quinoline-2-carboxylic acid methyl ester;
- (*1S,2S*)-9-fluoro-4-oxo-1-{3-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-propylamino}-1,2-dihydro-4*H*-pyrrolo[3,2,1-*ij*]quinoline-2-carboxylic acid methyl ester;
- (*1R,2R*)-9-fluoro-2-hydroxymethyl-1-{3-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-propylamino}-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;
- (*1S,2S*)-9-fluoro-2-hydroxymethyl-1-{3-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-propylamino}-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;
- (*1R,2S*)-9-fluoro-2-methyl-1-{3-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-propylamino}-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;

- (*1S,2R*)-9-fluoro-2-methyl-1-{3-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-propylamino}-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;
- (*1R,2S*)-9-fluoro-2-methyl-1-{3-[(*S*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-propylamino}-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;
- (*1S,2R*)-9-fluoro-2-methyl-1-{3-[(*S*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-propylamino}-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;
- (*1R,2S*)-9-fluoro-2-methyl-1-{3-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-pyrido[3,2-*b*][1,4]thiazin-6-yl)-oxazolidin-5-yl]-propylamino}-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;
- (*1S,2R*)-9-fluoro-2-methyl-1-{3-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-pyrido[3,2-*b*][1,4]thiazin-6-yl)-oxazolidin-5-yl]-propylamino}-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;
- (*1R,2R*)-9-fluoro-4-oxo-1-{3-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-propylamino}-1,2-dihydro-4*H*-pyrrolo[3,2,1-*ij*]quinoline-2-carboxylic acid;
- (*1S,2S*)-9-fluoro-4-oxo-1-{3-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-propylamino}-1,2-dihydro-4*H*-pyrrolo[3,2,1-*ij*]quinoline-2-carboxylic acid;
- (*R*)-9-fluoro-1-({2-[(*S*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]oxazin-6-yl)-oxazolidin-5-yl]-ethylamino}-methyl)-1,2,5,6-tetrahydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;
- (*S*)-9-fluoro-1-({2-[(*S*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]oxazin-6-yl)-oxazolidin-5-yl]-ethylamino}-methyl)-1,2,5,6-tetrahydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;
- (*1R,2S*)-2-aminomethyl-9-fluoro-1-{3-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-propylamino}-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;
- (*1S,2R*)-2-aminomethyl-9-fluoro-1-{3-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-propylamino}-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;
- (*S*)-9-fluoro-1-{3-[(*S*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-pyrido[3,2-*b*][1,4]oxazin-6-yl)-oxazolidin-5-yl]-propylamino}-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;
- (*S*)-9-fluoro-1-{3-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-pyrido[3,2-*b*][1,4]oxazin-6-yl)-oxazolidin-5-yl]-propylamino}-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;

- (*S*)-9-fluoro-1-{3-[(*S*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-pyrido[3,2-*b*][1,4]thiazin-6-yl)-oxazolidin-5-yl]-propylamino}-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;
- (*S*)-9-fluoro-1-{3-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-pyrido[3,2-*b*][1,4]thiazin-6-yl)-oxazolidin-5-yl]-propylamino}-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;
- (*R*)-9-fluoro-1-{3-[(*S*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-pyrido[3,2-*b*][1,4]oxazin-6-yl)-oxazolidin-5-yl]-propylamino}-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;
- (*R*)-9-fluoro-1-{3-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-pyrido[3,2-*b*][1,4]oxazin-6-yl)-oxazolidin-5-yl]-propylamino}-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;
- (*R*)-9-fluoro-1-{3-[(*S*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-pyrido[3,2-*b*][1,4]thiazin-6-yl)-oxazolidin-5-yl]-propylamino}-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;
- (*R*)-9-fluoro-1-{3-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-pyrido[3,2-*b*][1,4]thiazin-6-yl)-oxazolidin-5-yl]-propylamino}-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;
- (*R*)-9-fluoro-1-({2-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-pyrido[3,2-*b*][1,4]thiazin-6-yl)-oxazolidin-5-yl]-ethylamino}-methyl)-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;
- (*S*)-9-fluoro-1-({2-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-pyrido[3,2-*b*][1,4]thiazin-6-yl)-oxazolidin-5-yl]-ethylamino}-methyl)-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;
- (*R*)-9-fluoro-1-({2-[(*S*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-pyrido[3,2-*b*][1,4]thiazin-6-yl)-oxazolidin-5-yl]-ethylamino}-methyl)-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;
- (*S*)-9-fluoro-1-({2-[(*S*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-pyrido[3,2-*b*][1,4]thiazin-6-yl)-oxazolidin-5-yl]-ethylamino}-methyl)-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;
- (*R*)-7-fluoro-6-{3-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-pyrido[3,2-*b*][1,4]thiazin-6-yl)-oxazolidin-5-yl]-propylamino}-5,6-dihydro-pyrrolo[1,2,3-*de*]quinoxalin-3-one;
- (*S*)-7-fluoro-6-{3-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-pyrido[3,2-*b*][1,4]thiazin-6-yl)-oxazolidin-5-yl]-propylamino}-5,6-dihydro-pyrrolo[1,2,3-*de*]quinoxalin-3-one;
- (*R*)-7-fluoro-6-{3-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-pyrido[3,2-*b*][1,4]thiazin-6-yl)-oxazolidin-5-yl]-propylamino}-1,2,5,6-tetrahydro-pyrrolo[1,2,3-*de*]quinoxalin-3-one;
- (*S*)-7-fluoro-6-{3-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-pyrido[3,2-*b*][1,4]thiazin-6-yl)-oxazolidin-5-yl]-propylamino}-1,2,5,6-tetrahydro-pyrrolo[1,2,3-*de*]quinoxalin-3-one;
- (*R*)-7-fluoro-6-{3-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-pyrido[3,2-*b*][1,4]thiazin-6-yl)-oxazolidin-5-yl]-propylamino}-1-methyl-1,2,5,6-tetrahydro-pyrrolo[1,2,3-*de*]quinoxalin-3-one;

- (*S*)-7-fluoro-6-{3-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-pyrido[3,2-*b*][1,4]thiazin-6-yl)-oxazolidin-5-yl]-propylamino}-1-methyl-1,2,5,6-tetrahydro-pyrrolo[1,2,3-*de*]quinoxalin-3-one;

- (*R*)-7-fluoro-6-{3-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-pyrido[3,2-*b*][1,4]thiazin-6-yl)-oxazolidin-5-yl]-propylamino}-1-(3-hydroxypropyl)-1,2,5,6-tetrahydro-pyrrolo[1,2,3-*de*]quinoxalin-3-one;

- (*S*)-7-fluoro-6-{3-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-pyrido[3,2-*b*][1,4]thiazin-6-yl)-oxazolidin-5-yl]-propylamino}-1-(3-hydroxypropyl)-1,2,5,6-tetrahydro-pyrrolo[1,2,3-*de*]quinoxalin-3-one;

as well as to the salts (in particular the pharmaceutically acceptable salts) thereof.

xciv) The invention further relates to the compounds of formula I as defined in embodiment i) or v) which are selected from the group consisting of the compounds listed in embodiment lxxxvi), the compounds listed in embodiment lxxxviii), the compounds listed in embodiment xc) and the compounds listed in embodiment xcii), as well as to the salts (in particular the pharmaceutically acceptable salts) of such compounds. In particular, it also relates to the groups of compounds of formula I selected from the group consisting of the compounds listed in embodiment lxxxvi), the compounds listed in embodiment lxxxviii), the compounds listed in embodiment xc) and the compounds listed in embodiment xcii), which groups of compounds furthermore correspond to one of embodiments ix) to lxxxv), as well as to the salts (in particular the pharmaceutically acceptable salts) of such compounds.

xcv) The invention moreover relates to the compounds of formula I as defined in embodiment i) or v) which are selected from the group consisting of the compounds listed in embodiment lxxxvii), the compounds listed in embodiment lxxxix), the compounds listed in embodiment xci) and the compounds listed in embodiment xciii), as well as to the salts (in particular the pharmaceutically acceptable salts) of such compounds. In particular, it also relates to the groups of compounds of formula I selected from the group consisting of the compounds listed in embodiment lxxxvii), the compounds listed in embodiment lxxxix), the compounds listed in embodiment xci) and the compounds listed in embodiment xciii), which groups of compounds furthermore correspond to one of embodiments ix) to lxxxv), as well as to the salts (in particular the pharmaceutically acceptable salts) of such compounds.

The compounds of formula I according to the invention, i.e. according to one of embodiments i) to xcv) above, are suitable for the use as chemotherapeutic active compounds in human and veterinary medicine and as substances for preserving inorganic and organic materials in particular all types of organic materials for example polymers, lubricants, paints, fibres, leather, paper and wood.

The compounds of formula I according to the invention are particularly active against bacteria and bacteria-like organisms. They are therefore particularly suitable in human and veterinary medicine for the prophylaxis and chemotherapy of local and systemic infections caused by these pathogens as well as disorders related to bacterial infections comprising pneumonia, otitis media, sinusitis, bronchitis, tonsillitis, and mastoiditis related to infection by *Streptococcus pneumoniae*, *Haemophilus influenzae*, *Moraxella catarrhalis*, *Staphylococcus aureus*, *Enterococcus faecalis*, *E. faecium*, *E. casseliflavus*, *S. epidermidis*, *S. haemolyticus*, or *Peptostreptococcus spp.*; pharyngitis, rheumatic fever, and glomerulonephritis related to infection by *Streptococcus pyogenes*, Groups C and G streptococci, *Corynebacterium diphtheriae*, or *Actinobacillus haemolyticum*; respiratory tract infections related to infection by *Mycoplasma pneumoniae*, *Legionella pneumophila*, *Streptococcus pneumoniae*, *Haemophilus influenzae*, or *Chlamydia pneumoniae*; blood and tissue infections, including endocarditis and osteomyelitis, caused by *S. aureus*, *S. haemolyticus*, *E. faecalis*, *E. faecium*, *E. durans*, including strains resistant to known antibacterials such as, but not limited to, beta-lactams, vancomycin, aminoglycosides, quinolones, chloramphenicol, tetracyclines and macrolides; uncomplicated skin and soft tissue infections and abscesses, and puerperal fever related to infection by *Staphylococcus aureus,* coagulase-negative staphylococci (i.e., *S. epidermidis*, *S. haemolyticus*, etc.), *Streptococcus pyogenes*, *Streptococcus agalactiae*, Streptococcal groups C-F (minute colony streptococci), viridans streptococci, *Corynebacterium minutissimum*, *Clostridium spp.*, or *Bartonella henselae*; uncomplicated acute urinary tract infections related to infection by *Staphylococcus aureus*, coagulase-negative staphylococcal species, or *Enterococcus spp.*; urethritis and cervicitis; sexually transmitted diseases related to infection by *Chlamydia trachomatis*, *Haemophilus ducreyi*, *Treponema pallidum*, *Ureaplasma urealyticum*, or *Neiserria gonorrheae*; toxin diseases related to infection by *S. aureus* (food poisoning and toxic shock syndrome), or Groups A, B, and C streptococci; ulcers related to infection by *Helicobacter pylori*; systemic febrile syndromes related to

infection by *Borrelia recurrentis*; Lyme disease related to infection by *Borrelia burgdorferi*; conjunctivitis, keratitis, and dacrocystitis related to infection by *Chlamydia trachomatis*, *Neisseria gonorrhoeae*, *S. aureus*, *S. pneumoniae*, *S. pyogenes*, *H. influenzae*, or *Listeria* spp.; disseminated *Mycobacterium avium* complex (MAC) disease related to infection by *Mycobacterium avium*, or *Mycobacterium intracellulare*; infections caused by *Mycobacterium tuberculosis*, *M. leprae*, *M. paratuberculosis*, *M. kansasii*, or *M. chelonei*; gastroenteritis related to infection by *Campylobacter jejuni*; intestinal protozoa related to infection by *Cryptosporidium* spp.; odontogenic infection related to infection by viridans streptococci; persistent cough related to infection by *Bordetella pertussis*; gas gangrene related to infection by *Clostridium perfringens* or *Bacteroides* spp.; and atherosclerosis or cardiovascular disease related to infection by *Helicobacter pylori* or *Chlamydia pneumoniae*.

The compounds of formula I according to the present invention are further useful for the preparation of a medicament for the treatment of infections that are mediated by bacteria such as *E. coli, Klebsiella pneumoniae* and other Enterobacteriaceae, *Acinetobacter spp.* including *Acinetobacter baumanii*, *Stenothrophomonas maltophilia*, *Neisseria meningitidis*, *Bacillus cereus*, *Bacillus anthracis*, *Clostridium difficile, Corynebacterium spp.*, *Propionibacterium acnes* and bacteroide *spp.*

The compounds of formula I according to the present invention are further useful to treat protozoal infections caused by *Plasmodium malaria*, *Plasmodium falciparum*, *Toxoplasma gondii*, *Pneumocystis carinii*, *Trypanosoma brucei* and *Leishmania spp.*

The present list of pathogens is to be interpreted merely as examples and in no way as limiting.

The compounds of formula I according to this invention, or the pharmaceutically acceptable salt thereof, may be used for the preparation of a medicament, and are suitable, for the prevention or treatment (and notably for the treatment) of a bacterial infection.

One aspect of this invention therefore relates to the use of a compound of formula I according to one of embodiments i) to xcv), or of a pharmaceutically acceptable salt thereof, for the manufacture of a medicament for the prevention or treatment (and notably for the treatment) of a bacterial infection. Another aspect of this invention relates to a

compound of formula I according to one of embodiments i) to xcv), or of a pharmaceutically acceptable salt thereof, for the prevention or treatment (and notably for the treatment) of a bacterial infection.

Accordingly, the compounds of formula I according to one of embodiments i) to xcv), or the pharmaceutically acceptable salts thereof, may be used for the preparation of a medicament, and are suitable, for the prevention or treatment (and notably for the treatment) of a bacterial infection selected from the group consisting of respiratory tract infections, otitis media, meningitis, skin and soft tissue infections (whether complicated or uncomplicated), pneumonia (including hospital acquired pneumonia), bacteremia, endocarditis, intraabdominal infections, gastrointestinal infections, *Clostridium difficile* infections, urinary tract infections, sexually transmitted infections, foreign body infections, osteomyelitis, lyme disease, topical infections, opthalmological infections, tuberculosis and tropical diseases (e.g. malaria), and notably for the prevention or treatment (especially for the treatment) of a bacterial infection selected from the group consisting of respiratory tract infections, otitis media, meningitis, skin and soft tissue infections (whether complicated or uncomplicated), pneumonia (including hospital acquired pneumonia) and bacteremia.

As well as in humans, bacterial infections can also be treated using compounds of formula I (or pharmaceutically acceptable salts thereof) in other species like pigs, ruminants, horses, dogs, cats and poultry.

The present invention also relates to pharmacologically acceptable salts and to compositions and formulations of compounds of formula I.

Any reference to a compound of formula I is to be understood as referring also to the salts (and especially the pharmaceutically acceptable salts) of such compounds, as appropriate and expedient.

A pharmaceutical composition according to the present invention contains at least one compound of formula I (or a pharmaceutically acceptable salt thereof) as the active agent and optionally carriers and/or diluents and/or adjuvants, and may also contain additional known antibiotics.

The compounds of formula I and their pharmaceutically acceptable salts can be used as medicaments, e.g. in the form of pharmaceutical compositions for enteral or parenteral administration.

The production of the pharmaceutical compositions can be effected in a manner which will be familiar to any person skilled in the art (see for example Remington, *The Science and Practice of Pharmacy*, 21st Edition (2005), Part 5, "Pharmaceutical Manufacturing" [published by Lippincott Williams & Wilkins]) by bringing the described compounds of formula I or their pharmaceutically acceptable salts, optionally in combination with other therapeutically valuable substances, into a galenical administration form together with suitable, non-toxic, inert, therapeutically compatible solid or liquid carrier materials and, if desired, usual pharmaceutical adjuvants.

Another aspect of the invention concerns a method for the prevention or the treatment (and notably for the treatment) of a bacterial infection in a patient comprising the administration to said patient of a pharmaceutically active amount of a compound of formula I according to one of embodiments i) to xcv), or a pharmaceutically acceptable salt of such a compound.

Besides, any preferences and (sub-)embodiments indicated for the compounds of formula I (whether for the compounds themselves, salts thereof, compositions containing the compounds or salts thereof, uses of the compounds or salts thereof, etc.) apply *mutatis mutandis* to compounds of formula I_{CE}, I_{P1}, I_{CEP1}, I_{P2}, I_{CEP2}, I_{P3} or I_{CEP3}.

Moreover, the compounds of formula I may also be used for cleaning purposes, e.g. to remove pathogenic microbes and bacteria from surgical instruments or to make a room or an area aseptic. For such purposes, the compounds of formula I could be contained in a solution or in a spray formulation.

The compounds of formula I can be manufactured in accordance with the present invention using the procedures described hereafter.

PREPARATION OF COMPOUNDS OF FORMULA I

Abbreviations:

The following abbreviations are used throughout the specification and the examples:

Ac	acetyl
AcOH	acetic acid
AD-mix α	1,4-*bis*(dihydroquinine)phthalazine, $K_3Fe(CN)_6$, K_2CO_3 and $K_2OsO_4.2H_2O$
AD-mix β	1,4-*bis*(dihydroquinidine)phthalazine, $K_3Fe(CN)_6$, K_2CO_3 and $K_2OsO_4.2H_2O$
Alloc	allyloxycarbonyl
AIBN	azobisisobutyronitrile
aq.	aqueous
9-BBN	9-borabicyclo[3.3.1]nonane
Boc	*tert*-butoxycarbonyl
Bs	4-bromobenzenesulfonyl (brosylate)
Bu	*n*-butyl
Cbz	benzyloxycarbonyl
CC	column chromatography over silica gel
CDI	1,1'-carbonyldiimidazole
DAD	diode array detection
DBU	1,8-diazabicyclo[5.4.0]undec-7-ene
DCC	*N*,*N*'-dicyclohexylcarbodiimide
DCE	1,2-dichloroethane
DEA	diethylamine
DCM	dichloromethane
$(DHQ)_2PHAL$	1,4-*bis*(dihydroquinine)phthalazine
$(DHQD)_2PHAL$	1,4-*bis*(dihydroquinidine)phthalazine
DIAD	diisopropylazodicarboxylate

DIBAH	diisobutylaluminium hydride
DIPEA	*N*,*N*-diisopropylethylamine
DMAP	4-dimethylaminopyridine
DMF	*N*,*N*-dimethylformamide
DMSO	dimethylsulfoxide
DPEphos	bis(2-diphenylphosphinophenyl)ether
DPPA	diphenyl phosphorylazide
EA	ethyl acetate
EDC	1-(3-dimethylaminopropyl)-3-ethylcarbodiimide hydrochloride
ee	enantiomeric excess
ELSD	Evaporative Light Scattering Detector
ESI	Electron Spray Ionisation
eq.	equivalent
ether	diethyl ether
Et	ethyl
EtOH	ethanol
Fmoc	9-fluorenylmethoxycarbonyl
HATU	*O*-(7-azabenzotriazol-1-yl)-*N*,*N*,*N*′,*N*′-tetramethyluronium hexafluorophosphate
Hept	heptane
Hex	hexane
HOBT	1-hydroxybenzotriazole hydrate
HPLC	high pressure liquid chromatography
HV	high vacuum
KHMDS	potassium hexamethyldisilazide
LAH	lithium aluminium hydride
LC	liquid chromatography
LDA	lithium diisopropylamide
LiHMDS	lithium hexamethyldisilazide

MCPBA	*meta*-chloroperbenzoic acid
Me	methyl
MeCN	acetonitrile
MeOH	methanol
MS	Mass Spectroscopy
Ms	methanesulfonyl (mesyl)
n-BuLi	*n*-butyl lithium
NBS	*N*-bromosuccinimide
Nf	nonafluorobutanesulfonyl
Ns	4-nitrobenzenesulfonyl (nosylate)
NMO	*N*-methyl-morpholine *N*-oxide
org.	organic
o-Tol	*ortho*-tolyl
Pd/C	palladium on carbon
$Pd(OH)_2/C$	palladium dihydroxide on carbon
Ph	phenyl
Pht	phthaloyl
Pyr	pyridine
quant.	quantitative
rac	racemic
rt	room temperature
sat.	saturated
TBAF	tetrabutylammonium fluoride
TBDMS	*tert*-butyldimethylsilyl
TBME	*tert*-butylmethylether
TBDPS	*tert*-butyldiphenylsilyl
tBu	*tert*-butyl
TEA	triethylamine
TEMPO	2,2,6,6-tetramethyl-1-piperidinyloxy

Tf	trifluoromethanesulfonyl (triflyl)
TFA	trifluoroacetic acid
THF	tetrahydrofuran
TLC	thin layer chromatography
TMEDA	tetramethylethylenediamine
TMS	trimethylsilyl
t_R	retention time
Ts	*para*-toluenesulfonyl

General reaction techniques:

General reaction technique 1 (alkylation of an amine):

Ammonia or the appropriate amine derivatives is/are reacted with the appropriate derivatives having a side group L^1, L^2, L^3 or L^4, wherein L^1, L^2, L^3 or L^4 represents OMs, OTf, OTs, ONs, ONf, OBs, Cl, Br or I, in presence of an inorganic base such as K_2CO_3 or an org. base such as TEA in a solvent such as THF, DMF or DMSO between 0°C and +80°C. Further details can be found in *Comprehensive Organic Transformations. A guide to Functional Group Preparations;* 2nd Edition, R. C. Larock, Wiley-VC; New York, Chichester, Weinheim, Brisbane, Singapore, Toronto, (1999). Section Amines p.779.

General reaction technique 2 (reductive amination):

A solution of amine (1 mmol) and aldehyde or ketone (1 mmol) in DCE/MeOH 1:1 (10 mL) is stirred at rt overnight possibly in presence of a dessicant such as $MgSO_4$ or 3Å molecular sieves. $NaBH_4$ (2-5 eq.) is added and the reaction allowed to proceed for one hour. The reaction is diluted with DCM and aq. NH_4OH. The org. phase is washed with water, dried over $MgSO_4$ and concentrated. Alternatively, a solution of amine (1 mmol) and aldehyde or ketone (1 mmol) in DCE/MeOH 1:1 (10 mL) is treated with $NaBH(OAc)_3$ (2 eq.). The mixture is stirred at rt until complete conversion. The reaction is diluted with DCM and aq. NH_4OH. The org. phase is washed with water, dried over $MgSO_4$ and concentrated.

General reaction technique 3 (activation of an alcohol):

The alcohol is reacted with MsCl, TfCl, NfCl, NsCl, BsCl or TsCl in presence of an organic base such as TEA, DIPEA or Pyr in a dry aprotic solvent such as DCM, THF or Pyr between -10°C and rt. Alternatively, the alcohol can also be reacted with Ms_2O or Tf_2O. The activated intermediate can be further transformed into its corresponding iodo or bromo derivative by reaction of the activated alcohol with NaI or NaBr in a solvent such as acetone.

General reaction technique 4 (removal of amino protecting groups):

The benzyl carbamates are deprotected by hydrogenolysis over a noble metal catalyst (e.g. Pd/C or $Pd(OH)_2/C$). The Boc group is removed under acidic conditions such as HCl in an organic solvent such as MeOH or dioxane, or TFA neat or diluted in a solvent such DCM. Further general methods to remove amine protecting groups have been described in T.W. Greene, P.G.M. Wuts, *Protecting Groups in Organic Synthesis*, 3rd Ed (1999), 494-653 (Publisher: John Wiley and Sons, Inc., New York, N.Y.).

General reaction technique 5 (ester, ketone or aldehyde reduction):

The ester is reduced with a boron or aluminium hydride reducing agent such as $LiBH_4$ or LAH in a solvent such as THF between –20°C and 40°C. Alternatively, the ester function is hydrolyzed into its corresponding acid using an alkali hydroxide such as NaOH, KOH or LiOH in water or in a mixture of water with polar protic or aprotic organic solvent such as THF or MeOH between –10°C and 50°C. The resulting carboxylic acid is further reduced into the corresponding alcohol using a borane derivative such as a BH_3.THF complex in a solvent such as THF between –10°C and 40°C.

The aldehyde and the ketone are reduced with a boron or aluminium hydride reducing agent such as $NaBH_4$, $LiBH_4$ or LAH in a solvent such as THF between –20°C and 40°C. Further details can be found in *Comprehensive Organic Transformations. A guide to Functional Group Preparations*; 2nd Edition, R. C. Larock, Wiley-VC; New York, Chichester, Weinheim, Brisbane, Singapore, Toronto, (1999). Section Alcohols and phenols, p. 1057-1087.

General reaction technique 6 (*cis*-dihydroxylation):

The diol is obtained by dihydroxylation of the corresponding ethylenic derivative using a catalytic amount of potassium osmate in the presence a co-oxidant such as NMO in an aq. solvent such as an acetone-water or DCM-water mixture (see Cha, J.K., *Chem. Rev.* (1995), **95**, 1761-1795). The chiral *cis*-diols are obtained by using AD-mix α or AD-mix β in presence of methanesulfonamide in a water/2-methyl-2 propanol mixture as described in *Chem. Rev.* (1994), **94**, 2483. The sense of induction relies on the chiral ligand contained in the AD mixture, either a dihydroquinine-based ligand in AD-mix α or a dihydroquinidine-based ligand in AD-mix β.

General reaction technique 7 (protection of alcohols):

The alcohols are protected as silyl ethers (usually TBDMS or TBDPS ethers). The alcohol is reacted with the required silyl chloride reagent (TBDMSCl or TBDPSCl) in presence of a base such as imidazole or TEA in a solvent such as DCM or DMF between +10°C and +40°C. Further strategies to introduce other alcohol protecting groups have been described in T.W. Greene, P.G.M. Wuts, *Protecting Groups in Organic Synthesis*, 3rd Ed (1999), 23-147 (Publisher: John Wiley and Sons, Inc., New York, N.Y.).

General reaction technique 8 (removal of hydroxy protecting groups):

The silyl ether groups are removed either using fluoride anion sources such as TBAF in THF between 0°C and +40°C or HF in MeCN between 0°C and +40°C or using acidic conditions such as AcOH in THF/MeOH or HCl in MeOH. Further methods to remove the TBDMS and TBDPS groups are given in T.W. Greene, P.G.M. Wuts, *Protecting Groups in Organic Synthesis*, 3rd Ed (1999), 133-139 and 142-143 respectively (Publisher: John Wiley and Sons, Inc., New York, N.Y.). Further general methods to remove alcohol protecting groups are described in T.W. Greene, P.G.M. Wuts, *Protecting Groups in Organic Synthesis*, 3rd Ed (1999), 23-147 (Publisher: John Wiley and Sons, Inc., New York, N.Y.). In the particular case of alkylcarboxy protecting group, the free alcohol can be obtained by the action of an inorganic base such as K_2CO_3 in a solvent such as MeOH.

General reaction technique 9 (formation of aldehydes):

The alcohols can be transformed into their corresponding aldehydes through oxidation under Swern (see D. Swern et al., *J. Org. Chem.* (1978), **43**, 2480–2482) or Dess Martin

(see D.B. Dess and J.C. Martin, *J. Org. Chem.* (1983), **48**, 4155) conditions respectively. Alternatively, the esters can be transformed into their corresponding aldehydes by controlled reduction with a bulky hydride reagent such as DIBAH.

General reaction technique 10 (amine protection):

Amines are usually protected as carbamates such as Alloc, Cbz, Boc or Fmoc. They are obtained by reacting the amine with allyl or benzyl chloroformate, di *tert*-butyl dicarbonate or FmocCl in presence of a base such as NaOH, TEA, DMAP or imidazole. They can also be protected as *N*-benzyl derivatives by reaction with benzyl bromide or chloride in presence of a base such as Na_2CO_3 or TEA. Alternatively, *N*-benzyl derivatives can be obtained through reductive amination in presence of benzaldehyde and a borohydride reagent such as $NaBH_4$, $NaBH_3CN$ or $NaBH(OAc)_3$ in a solvent such as MeOH, DCE or THF. Further strategies to introduce other amine protecting groups have been described in T.W. Greene, P.G.M. Wuts, *Protecting Groups in Organic Synthesis*, 3rd Ed (1999), 494-653 (Publisher: John Wiley and Sons, Inc., New York, N.Y.).

General reaction technique 11 (hydrogenation of a double bond):

The unsaturated derivatives dissolved in a solvent such as MeOH, EA or THF are hydrogenated over a noble metal catalyst such as Pd/C or PtO_2, or over Raney Ni. At the end of the reaction the catalyst is filtered off and the filtrate is evaporated under reduced pressure. Alternatively the reduction can be performed by catalytic transfer hydrogenation using Pd/C and ammonium formate as hydrogen source.

General reaction technique 12 (reduction of azides into amines):

The azides are hydrogenated over a noble metal catalyst such as Pd/C in solvent such as MeOH or EA. In case the molecule is containing an unsaturated double or triple bond, the reduction can be performed using PPh_3 in presence of water as described in *J. Med. Chem.* (1993), **36**, 2558-68.

General reaction technique 13 (amide formation):

The carboxylic acid is reacted with the amine in presence of an activating agent such as DCC, EDC, HOBT, n-propylphosphonic cyclic anhydride, HATU or di-(N-succinimidyl)-carbonate, in a dry aprotic solvent such as DCM, MeCN or DMF between –20°C and

+60°C (see G. Benz in Comprehensive Organic Synthesis, B.M. Trost, I. Fleming, Eds; Pergamon Press: New York (1991), vol. 6, p. 381). Alternatively, the carboxylic acid can be activated by conversion into its corresponding acid chloride by reaction with oxalyl chloride or thionyl chloride neat or in a solvent like DCM between 20° and +60°C. Further activating agents can be found in *Comprehensive Organic Transformations. A guide to Functional Group Preparations*; 2nd Edition, R. C. Larock, Wiley-VC; New York, Chichester, Weinheim, Brisbane, Singapore, Toronto, 1999. Section nitriles, carboxylic acids and derivatives p.1941-1949.

General reaction technique 14 (oxidation of alcohols/aldehydes into acids):

Aldehydes can be oxidized into their corresponding acids by a variety of methods as described in *Comprehensive Organic Transformations. A guide to Functional Group Preparations*; 2nd Edition, R. C. Larock, Wiley-VC; New York, Chichester, Weinheim, Brisbane, Singapore, Toronto, 1999. Section nitriles, carboxylic acids and derivatives, p.1653-1655. Among them, potassium permanganate in an acetone-water mixture (see Synthesis 1987, 85) or sodium chlorite in 2-methyl-2-propanol in presence of 2-methyl-2-butene (see Tetrahedron 1981, 37, 2091-2096) are frequently used.

Alcohols can be directly oxydized into their corresponding acids by a variety of methods as described in *Comprehensive Organic Transformations. A guide to Functional Group Preparations*; 2nd Edition, R. C. Larock, Wiley-VC; New York, Chichester, Weinheim, Brisbane, Singapore, Toronto, 1999. Section nitriles, carboxylic acids and derivatives p.1646-1648. Among them, [bis(acetoxy)iodo]benzene in presence of TEMPO, the Jones reagents (CrO_3/H_2SO_4), $NaIO_4$ in presence of $RuCl_3$, $KMnO_4$ or pyridine $H_2Cr_2O_7$ are frequently used.

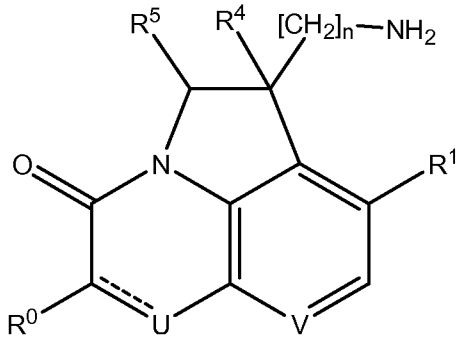
General preparation methods:

Preparation of the compounds of formula I:

The compounds of formula I can be manufactured by the methods given below, by the methods given in the examples or by analogous methods. Optimum reaction conditions may vary with the particular reactants or solvents used, but such conditions can be determined by a person skilled in the art by routine optimisation procedures.

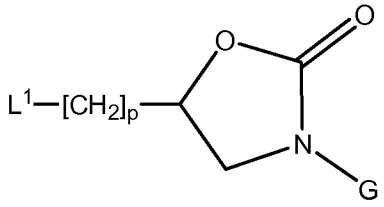
Sections a) to r) hereafter describe general methods for preparing compounds of formula I. If not indicated otherwise, the generic groups or integers n, p, R^0, R^1, U, V, R^4, R^5, R^2, A and G are as defined for formula I. General synthetic methods used repeatedly throughout the text below are referenced to and described in the above section entitled "General synthetic methods". Other abbreviations used are defined in the experimental section. In some instances the generic groups R^0, R^1, R^2, R^4, R^5, U, A and G might be incompatible with the assembly illustrated in the procedures and schemes below and so will require the use of protecting groups. The use of protecting groups is well known in the art (see for example "Protective Groups in Organic Synthesis", T.W. Greene, P.G.M. Wuts, Wiley-Interscience, 1999).

a) The compounds of formula I wherein R^2 represents H and A represents $-(CH_2)_p-$ can be manufactured in accordance with the present invention by reacting the compounds of formula II



II

with the compounds of formula III

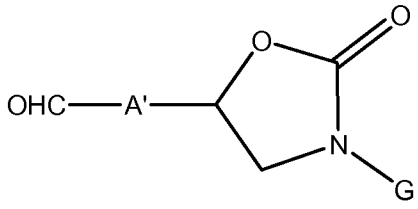


III

wherein L^1 is a halogen such as bromine or iodine, or a group OSO_2R^a wherein R^a is alkyl, CF_3 or tolyl, following general reaction technique 1.

b) The compounds of formula I wherein R^2 represents H and A represents $-CH_2CH_2CH(OH)-$ or $-(CH_2)_p-$, p being 3 or 4, can be manufactured in accordance

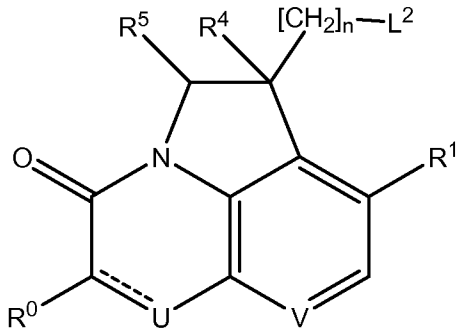
with the present invention by reacting the compounds of formula II as defined in section a) with the aldehydes of formula IV



IV

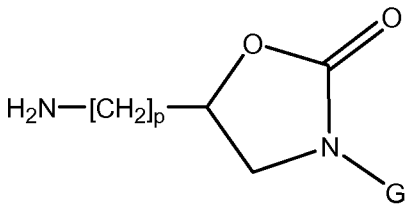
wherein A' represents $-(CH_2)_{p-1}-$ or $-CH_2CH(OPG)-$, PG being a silyl protecting group such as TBDMS or TBDPS, following general reaction technique 2, the compounds thus obtained being if necessary deprotected using general reaction technique 8.

c) The compounds of formula I wherein R^2 represents H, n represents 1 or 2 and A represents $-(CH_2)_p-$, p being 1, 2 or 3, can further be manufactured in accordance with the present invention by reacting the compounds of formula V



V

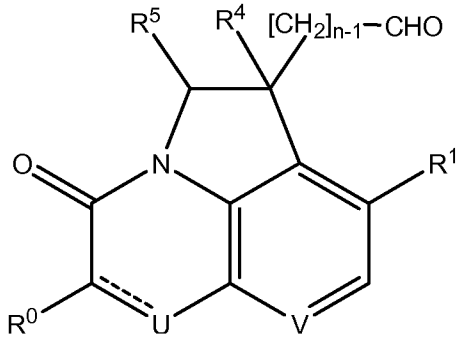
wherein L^2 is a halogen such as bromine or iodine, or a group OSO_2R^a wherein R^a is alkyl, CF_3 or tolyl, with the amines of formula VI



VI

following general reaction technique 1.

d) The compounds of formula I wherein R^2 represents H, A represents $-(CH_2)_p-$ and n is 1 or 2 can be manufactured in accordance with the present invention by reacting the compounds of formula VII

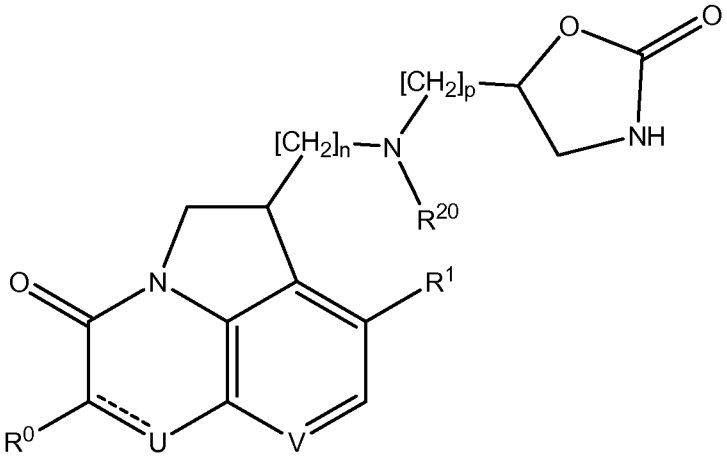


VII

with the previously mentioned amines of formula VI following general reaction technique 2.

e) The compounds of formula I wherein "-----" is absent, R^0 represents H and U is CH_2 or NH can be obtained by hydrogenation of a compound of formula I wherein "-----" is a bond and U is CH or N over a noble metal catalyst such as Pd/C, following general reaction technique 11. In the case wherein U is N the transformation can also be performed by reduction with a hydride reagent such as $NaBH_4$.

f) The compounds of formula I wherein each of R^4 and R^5 represents H and A represents $-(CH_2)_p-$ can moreover be obtained by reacting the compounds of formula VIII



VIII

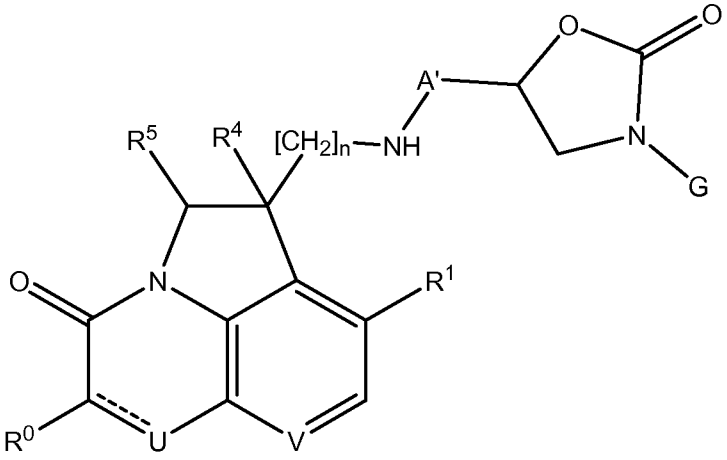
wherein R^{20} represents H, $CH_2R^{3'}$ or an amino protecting group such as Cbz, Boc or Fmoc and $R^{3'}$ represents hydrogen or $(C_1\text{-}C_3)$alkyl or also $R^{3'}$ represents a $(C_1\text{-}C_3)$hydroxyalkyl group the hydroxy of which is protected in the form of a silyl ether (e.g. as a TBDMS or TBDPS ether), with the compounds of formula IX

$$G\text{-}L^3$$

IX

wherein L^3 represents halogen. In the case of compounds of formula IX wherein G is a group G^1 and X is N or G is a group G^2 and Y^1 and/or Y^3 is/are N, the reaction can be performed in the presence of NaH. This reaction can also be performed under conditions described for the metal catalyzed *N*-arylation of 2-oxazolidinones or amides. In particular by using CuI and 1,1,1-*tris*(hydroxymethyl)ethane in presence of Cs_2CO_3 (*Org. Lett.* (2006), **8**, 5609-5612), or $Pd(OAc)_2$ and DPEphos in presence of K_3PO_4. The compounds thus obtained are if necessary deprotected using general reaction technique 8.

g) The compounds of formula I wherein R^2 does not represent H can furthermore be obtained by reacting the compounds of formula X



X

wherein A' represents $-(CH_2)_p-$ or $-CH_2CH_2CH(OPG)-$, PG being a silyl protecting group such as TBDMS or TBDPS, with the compounds of formula XI

$$R^{3'}\text{-}CH_2\text{-}L^4$$

XI

wherein L^4 represents halogen or the group OSO_2R^a wherein R^a is alkyl, CF_3 or tolyl and $R^{3'}$ represents hydrogen or $(C_1\text{-}C_3)$alkyl or also $R^{3'}$ represents a $(C_1\text{-}C_3)$hydroxyalkyl group, the hydroxy of which is protected in the form of a silyl ether (e.g. as a TBDMS or TBDPS ether), following general reaction technique 1, the compounds thus obtained being if necessary deprotected using general reaction technique 8. In the particular case wherein $R^{3'}$ is H, the reaction can also be performed by reaction of the compounds of formula X as defined above with dimethylsulfate.

h) The compounds of formula I wherein R^2 does not represent H can also be obtained by reacting the compounds of formula X as defined above with the compounds of formula XII

$R^{3'}$-CHO

XII

wherein $R^{3'}$ represents hydrogen or $(C_1\text{-}C_3)$alkyl or also $R^{3'}$ represents a $(C_1\text{-}C_3)$hydroxyalkyl group, the hydroxy of which is protected in the form of a silyl ether (e.g. as a TBDMS or TBDPS ether), following general reaction technique 2, the compounds thus obtained being if necessary deprotected using general reaction technique 8.

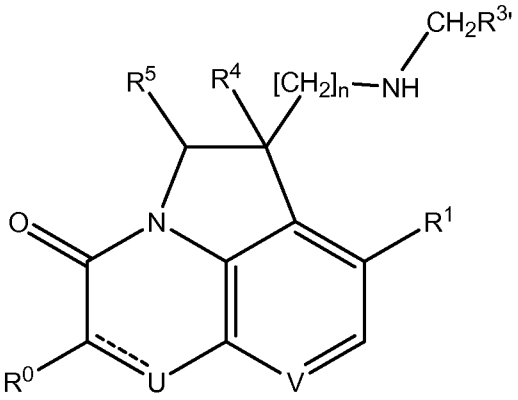
i) The compounds of formula I wherein R^2 does not represent H can also be obtained by reacting the compounds of formula X as defined above with the compounds of formula XII*a*

$R^{3'}$-CO-L^5

XII*a*

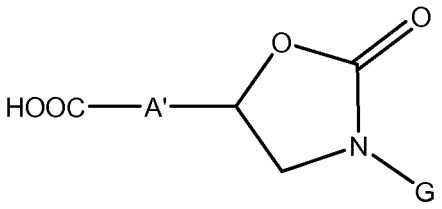
wherein $R^{3'}$ represents $(C_1\text{-}C_3)$alkyl or $(C_1\text{-}C_3)$hydroxyalkyl group, the hydroxy of which is protected in the form of a silyl ether (e.g. as a TBDMS or TBDPS ether) and L^5 represents halogen or OH, following general reaction technique 13; the compounds thus obtained being if necessary deprotected using general reaction technique 8. In the particular case wherein $R^{3'}$ is methyl, the reaction can also be performed by reacting the compounds of formula X as defined above with acetic acid anhydride.

j) The compounds of formula I wherein R^2 does not represent H can furthermore be obtained by reacting the compounds of formula XIII



XIII

wherein $R^{3'}$ represents hydrogen or $(C_1\text{-}C_3)$alkyl or also $R^{3'}$ represents a $(C_1\text{-}C_3)$hydroxyalkyl group, the hydroxy of which is protected in the form of a silyl ether (e.g. as a TBDMS or TBDPS ether), with the compounds of formula XIV

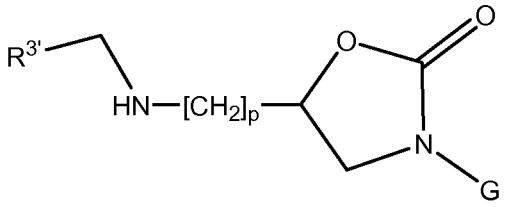


XIV

wherein A' represents $-(CH_2)_{p-1}-$ or $-CH_2CH(OPG)-$, PG being a silyl protecting group such as TBDMS or TBDPS, following general reaction technique 13, the compounds thus obtained being if necessary deprotected using general reaction technique 8.

k) The compounds of formula I wherein R^2 does not represent H can be obtained by reacting the compounds of formula XIII as defined above with the compounds of formula III as defined above following general reaction technique 1. The compounds thus obtained being if necessary deprotected using general reaction technique 8.

l) The compounds of formula I wherein R^2 does not represent H can furthermore be obtained by reacting the compounds of formula V with the compounds of formula XV



XV

wherein $R^{3'}$ represents hydrogen or (C_1-C_3)alkyl or also $R^{3'}$ represents a (C_1-C_3)hydroxyalkyl group, the hydroxy of which is protected in the form of a silyl ether (e.g. as a TBDMS or TBDPS ether), following general reaction technique 1, the compounds thus obtained being if necessary deprotected using general reaction technique 8.

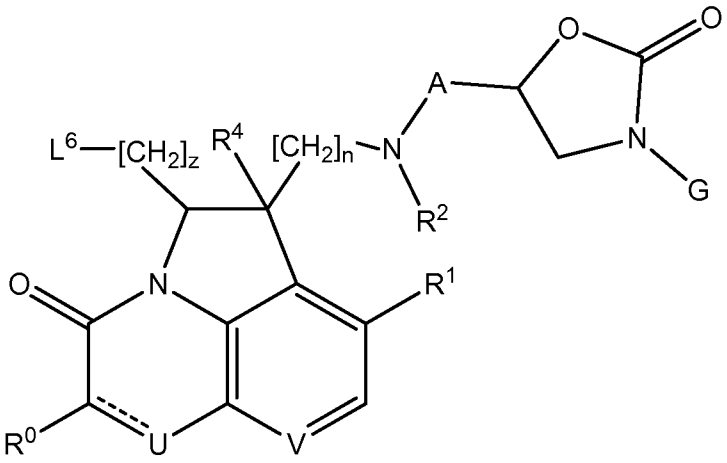
m) The compounds of formula I wherein R^2 does not represent H can be obtained by reacting the compounds of formula VII as defined above with the compounds of formula XV as defined above following general reaction technique 2, the compounds thus obtained being if necessary deprotected using general reaction technique 8.

n) The compounds of formula I wherein V is CR^6 and R^6 represents carboxy can be obtained by hydrolysis of the derivatives of formula I wherein R^6 represents either alkoxycarbonyl (under acidic or basic conditions) or benzyloxycarbonyl (under hydrogenolysis conditions).

o) The compounds of formula I wherein V is CR^6 and R^6 represents $-CH_2OH$ can be obtained by reduction of the derivatives of formula I wherein R^6 represents either alkoxycarbonyl or benzyloxycarbonyl using general reaction technique 5.

p) The compounds of formula I wherein R^5 represents carboxy can be obtained from the corresponding compounds of formula I wherein R^5 represents (C_1-C_3)alkoxycarbonyl by treatment with an aq. HCl solution.

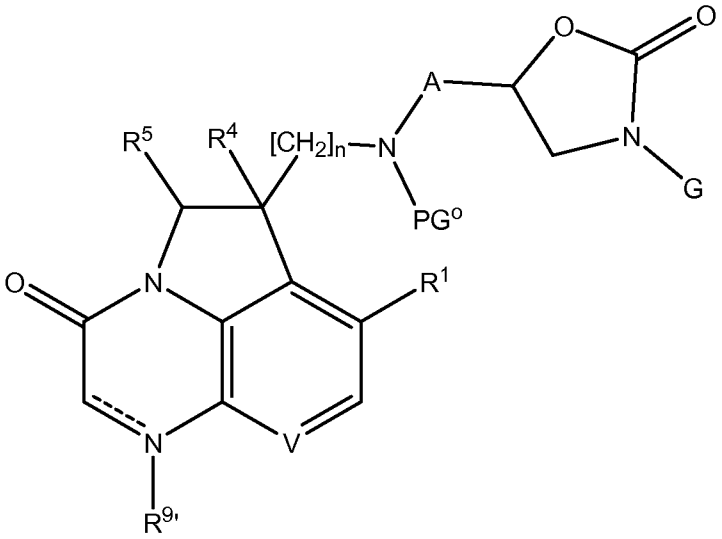
q) The compounds of formula I wherein R^5 represents (C_1-C_3)aminoalkyl can be obtained by reacting the compounds of formula XVI



XVI

wherein z represents an integer from 1 to 3 and L^6 represents halogen or the group OSO_2R^a wherein R^a is alkyl, CF_3 or tolyl, with sodium azide followed by transforming the intermediate azides into the corresponding amines of formula I using general reaction technique 12.

r) The compounds of formula I wherein "----" is absent, U represents NR^9, R^9 represents $(C_1\text{-}C_3)$alkyl, 2-hydroxy-ethyl, 2-hydroxy-propyl or 3-hydroxy-propyl, R^0 represents H, R^2 represents H and A represents $-(CH_2)_p-$ or $-CH_2CH_2CH(OH)-$ can be obtained by removal of the amino protecting group PG^0 from the compounds of formula XVII



XVII

wherein PG^0 represents an amino protecting group such as Ac, Boc, Cbz or Fmoc and $R^{9'}$ represents $(C_1\text{-}C_3)$alkyl or also $R^{9'}$ represents a 2-hydroxy-ethyl, 2-hydroxy-propyl or 3-hydroxy-propyl group, the hydroxy of which group has been protected in the form of a silyl ether (e.g. as a TBDMS or TBDPS ether), using general reaction technique 4, this reaction being followed, in the case wherein $R^{9'}$ is a $(C_2\text{-}C_3)$hydroxyalkyl group, the hydroxy group of which has been protected in the form of a silyl ether, by removal of the silyl protecting group using general reaction technique 8.

With reference to the reactions mentioned at preceding sections a) to r), in addition to the cases already indicated, the use of hydroxy or amino protecting groups (see general reaction techniques 7 and 8 for hydroxy protecting groups and general reaction techniques 10 and 4 for amino protecting groups) is likely to be required in the following cases:

- when R^5 represents $(C_1\text{-}C_3)$hydroxyalkyl or $(C_1\text{-}C_3)$aminoalkyl;
- when R^6 represents $(C_1\text{-}C_3)$hydroxyalkyl or a group $-(CH_2)_q\text{-}NR^7R^8$ wherein at least one of R^7 and R^8 represents H;

- when "----" is absent and U represents NR^9 wherein R^9 represents 2-hydroxy-ethyl, 2-hydroxy-propyl or 3-hydroxy-propyl.

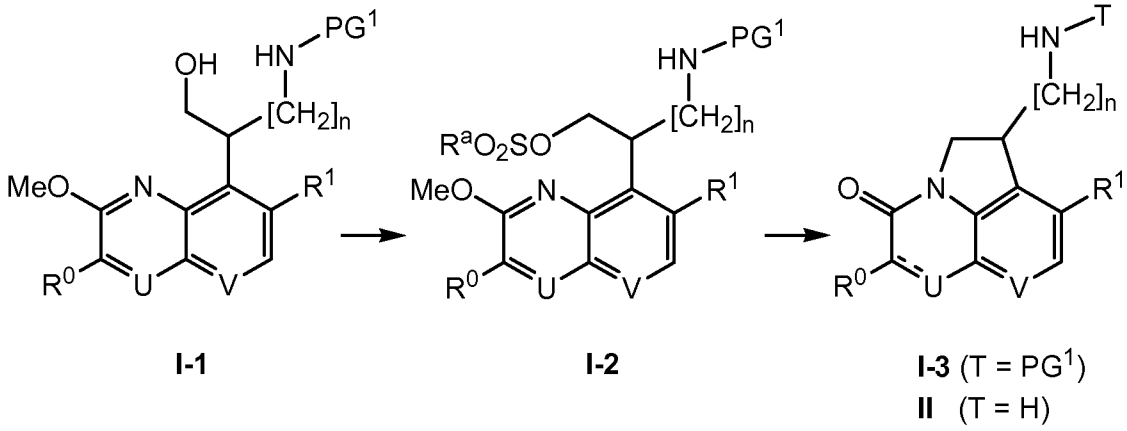
The compounds of formula I thus obtained may, if desired, be converted into their salts, and notably into their pharmaceutically acceptable salts.

Besides, whenever the compounds of formula I are obtained in the form of mixtures of enantiomers, the enantiomers can be separated using methods known to one skilled in the art, e.g. by formation and separation of diastereomeric salts or by HPLC over a chiral stationary phase such as a Regis Whelk-O1(R,R) (10 µm) column, a Daicel ChiralCel OD-H (5-10 µm) column, or a Daicel ChiralPak IA (10 µm) or AD-H (5 µm) column. Typical conditions of chiral HPLC are an isocratic mixture of eluent A (EtOH, in presence or absence of an amine such as triethylamine, diethylamine) and eluent B (hexane), at a flow rate of 0.8 to 150 mL/min. Whenever the compounds of formula I are obtained in the form of mixtures of diasteromers they may be separated by an appropriate combination of silica gel chromatography, HPLC and crystallization techniques.

Preparation of the compounds of formulae II to XV:

The compounds of formula II can be prepared either by reaction of the compounds of formula V with sodium azide followed by transformation into the corresponding amines of formula II using general reaction technique 12 or as described in Schemes 1, 1*a*, 1*b*, 1*c*, 1*d* and 1*e* hereafter.

The compounds of formula II wherein each of R^4 and R^5 represents H can be prepared as described in Scheme 1 hereafter.



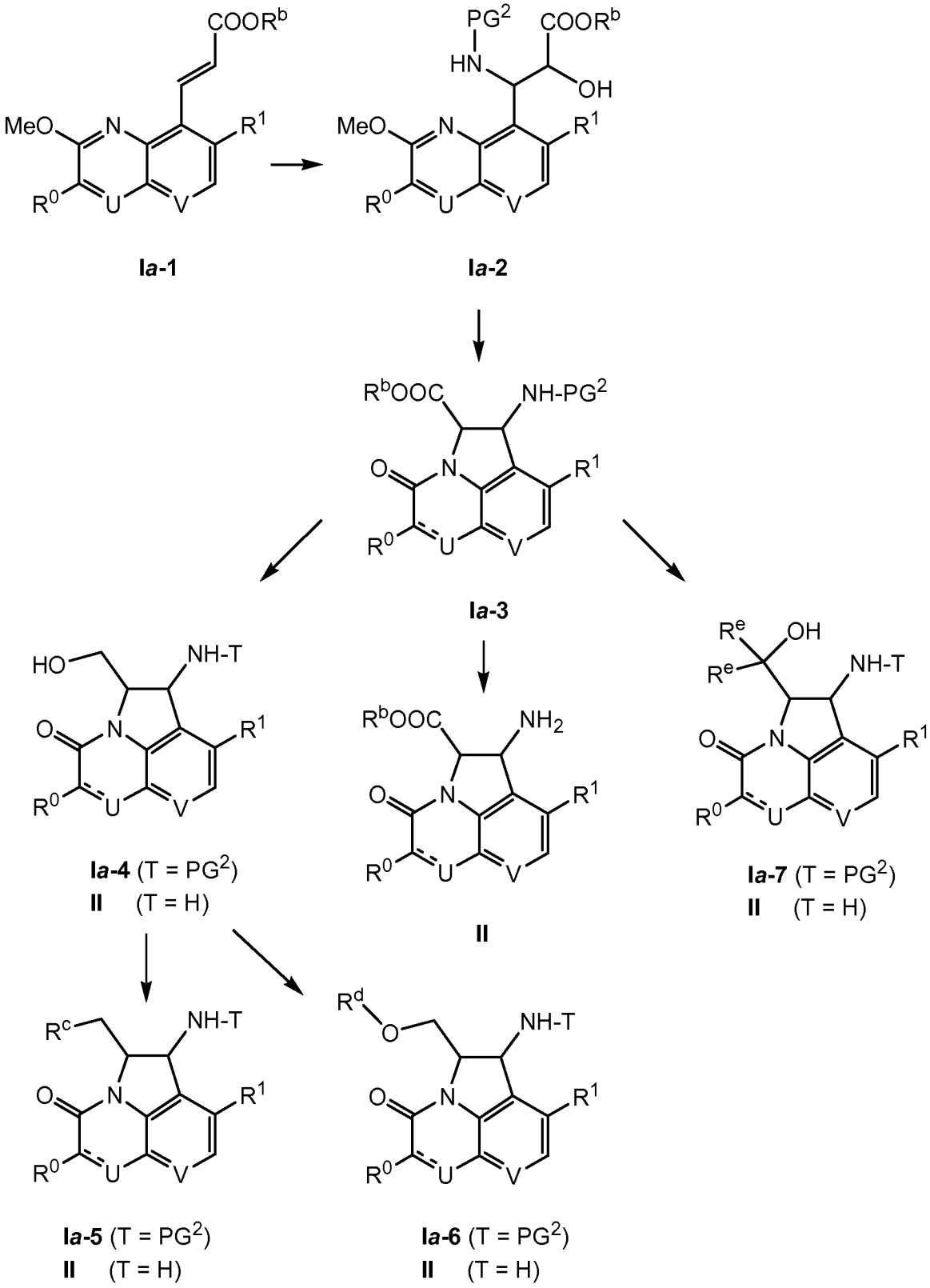
Scheme 1

In Scheme 1, PG^1 represents an amino protecting group such as Boc or Fmoc and R^a represents alkyl, CF_3 or tolyl.

The protected amino alcohol derivatives of formula I-1 can be transformed into the corresponding mesylates, triflates or tosylates using general reaction technique 3. The resulting sulfonates of formula I-2 can be ring closed between rt and 110°C affording the tricyclic derivatives of formula I-3. Then the amino protecting group can be removed using general reaction technique 4 to give the compounds of formula II wherein "-----" is a bond.

The compounds of formula II wherein "-----" is absent and U represents CH_2 or NH can be prepared by using derivatives identical to the compounds of formula I-1 except that U represents CH or N and PG^1 represents Cbz. The same synthetic sequence can be used, except that, during the last step, the hydrogenation reaction reduces both the CH=CH or CH=N double bond and removes the Cbz protecting group. In the case of compounds of formula II wherein "-----" is absent and U represents NH, the reduction of the CH=N double bond can also be carried out using a hydride reagent such as $NaBH_4$.

The compounds of formula II wherein R^4 represents H and R^5 represents (C_1-C_3)alkyl, (C_1-C_3)hydroxyalkyl, (C_1-C_3)alkoxy(C_1-C_3)alkyl or (C_1-C_3)alkoxycarbonyl can be prepared as described in Scheme 1*a* hereafter.


COOR^b
MeO
N
R^1
R^0
U
V
PG^2
HN
OH
Ia-1
Ia-2
R^bOOC
NH-PG^2
O
Ia-3
HO
NH-T
Ia-4 (T = PG^2)
II (T = H)
R^bOOC
NH_2
II
R^e
OH
Ia-7 (T = PG^2)
II (T = H)
R^c
Ia-5 (T = PG^2)
II (T = H)
R^d
O
Ia-6 (T = PG^2)
II (T = H)

Scheme 1*a*

In Scheme 1*a*, PG^2 represents an amino protecting group such as Boc or Fmoc, R^b represents alkyl or benzyl, R^c represents hydrogen or alkyl and each of R^d and R^e represents alkyl.

The compounds of formula II wherein R^4 represents H and R^5 is $(C_1$-$C_3)$alkoxycarbonyl can be obtained by oxyamination of the acrylate derivatives of formula I*a*-1 (K_2OsO_4, BocNClNa and either $(DHQD)_2PHAL$ or $(DQD)_2PHAL$ as described in *J. Org. Chem.* (2005), **70**, 2847-2850). The intermediates of formula I*a*-2 can be cyclised into the derivatives of formula I*a*-3 using general reaction technique 3 (including heating at 50-70°C). The corresponding compounds of formula II can then be obtained by removal of the protecting group using general reaction technique 4.

The compounds of formula II wherein R^5 is hydroxymethyl can be obtained by reduction of the ester function of the intermediates of formula I*a*-3 using general reaction technique 5. The corresponding compounds of formula II can then be obtained by removal of the protecting group in the compounds of formula I*a*-4 using general reaction technique 4.

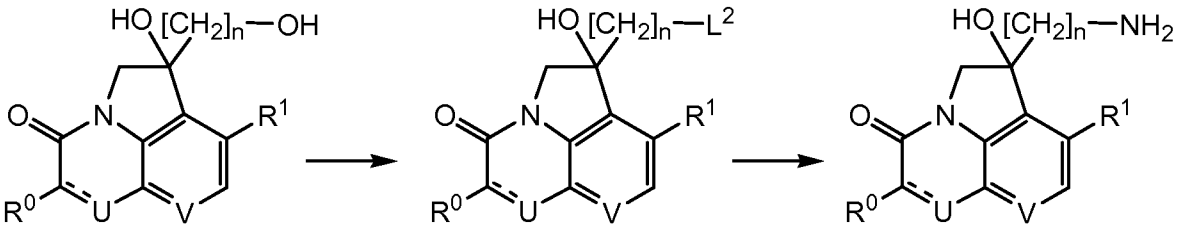
The compounds of formula II wherein R^5 is methyl can be obtained by activation of the alcohol function of intermediates I*a*-4 using general reaction technique 3 followed by reaction with a hydride reagent such as LAH or Bu_3SnH. More generally, the compounds of formula II wherein R^5 is $(C_1$-$C_3)$alkyl can be obtained by oxidation of the intermediates of formula I*a*-4 into the corresponding aldehydes following general reaction technique 9 followed by sequential Wittig reaction with alkylidene triphenylphosphorane and catalytic hydrogenation following general reaction technique 11. The protecting group of the intermediates of formula I*a*-5 thus obtained can then be removed using general reaction technique 4, providing the corresponding compounds of formula II.

The compounds of formula II wherein R^5 is alkoxymethyl can be obtained by reacting the anions of the compounds of formula I*a*-4 (generated by reaction with NaH) with the corresponding halogenides of formula R^d-X (R^d being alkyl and X being halogen). The protecting group of the intermediates of formula I*a*-6 thus obtained can then be removed using general reaction technique 4, providing the corresponding compounds of formula II.

The compounds of formula II wherein R^5 is dialkylhydroxymethyl can be obtained reacting the esters of formula I*a*-3 with a Grignard reagent of formula R^e-MgX wherein R^e is alkyl and X represents halogen. The protecting group of the intermediates of formula I*a*-7 thus

obtained can then be removed using general reaction technique 4, providing the corresponding compounds of formula II.

The compounds of formulae II and V wherein R^4 represents OH can be prepared as described in Scheme 1*b* hereafter.



I*b*-1 (n=1)
I*b*-2 (n=2)

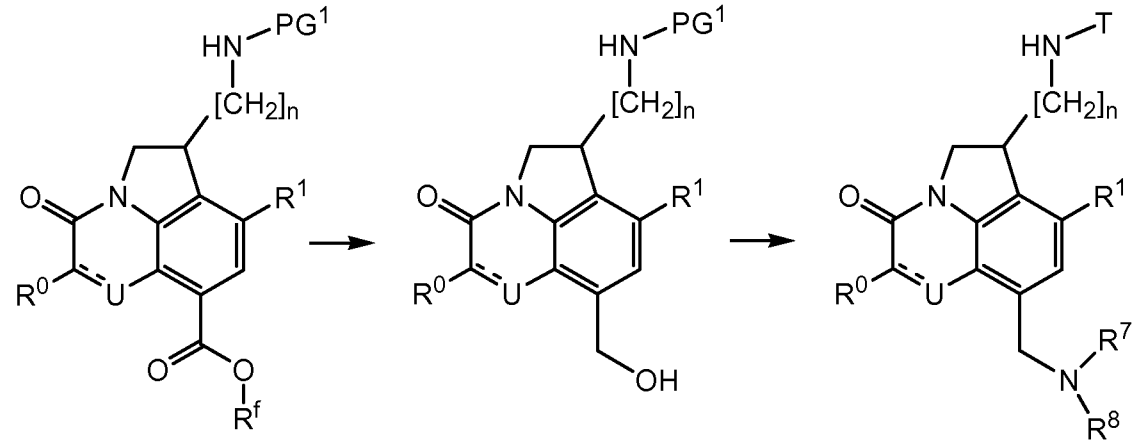
V

II

Scheme 1*b*

Accordingly, the compounds of formula V wherein R^4 represents OH and n is 1 or 2 can be obtained by activation of the primary alcohols of formula I*b*-1 or I*b*-2 using general reaction technique 3 followed by reaction with NaN_3. The compounds of formula V can then be transformed into the amines of formula II using general reaction technique 12.

Besides, the compounds of formula II wherein each of R^4 and R^5 represents H and V represents CR^6, R^6 representing hydroxymethyl or a group $-CH_2-NR^7R^8$, can be prepared as described in Scheme 1*c* hereafter.



I-3
(V = CR^6, R^6 = $COOR^f$)

I*c*-1

I*c*-2 (T = PG^1)
II (T = H)

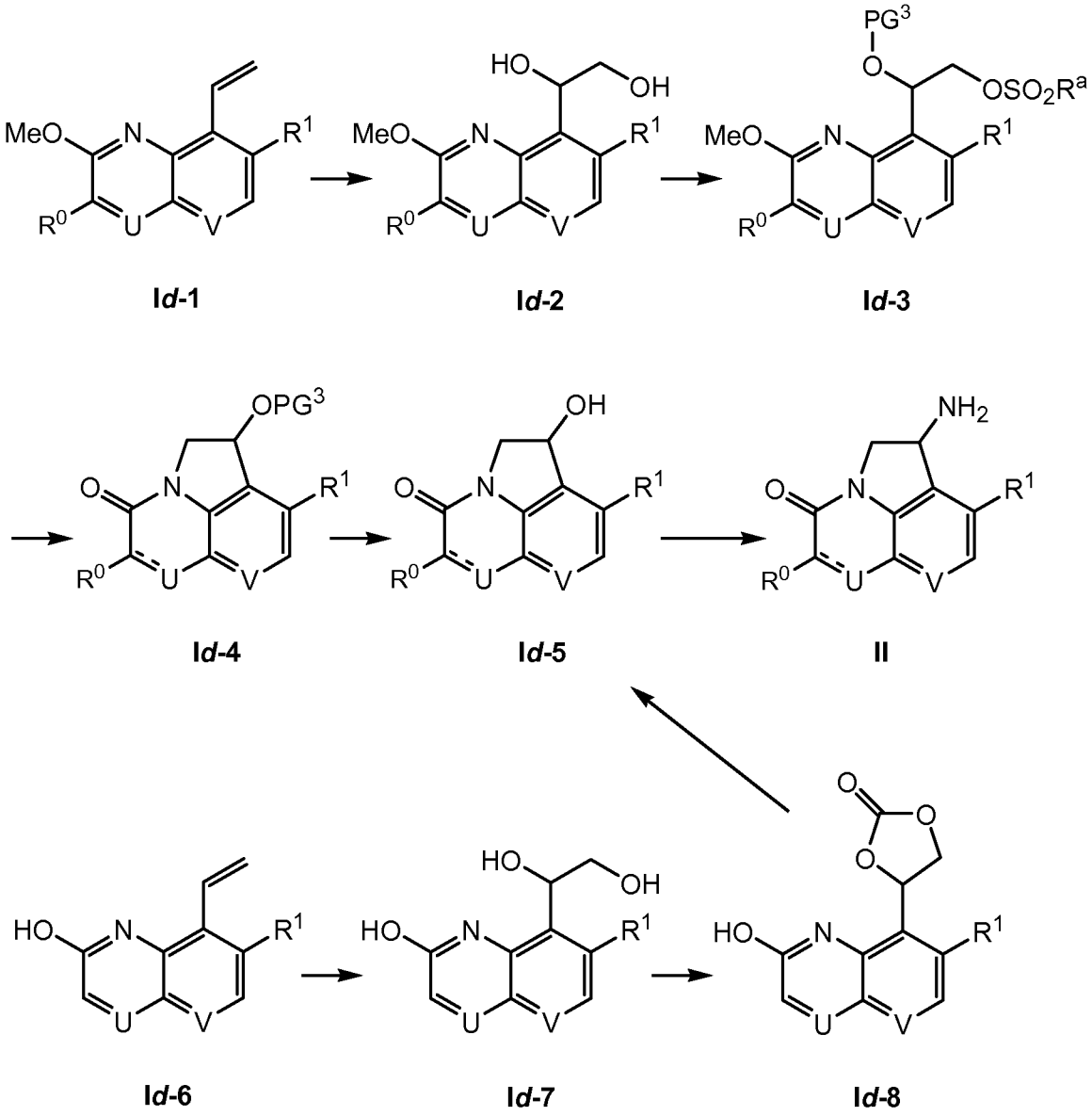
Scheme 1*c*

In Scheme 1*c*, PG^1 represents an amino protecting group such as Boc or Fmoc, R^f represents alkyl, each of R^7 and R^8 independently represents H or (C_1-C_3)alkyl or R^7 and R^8 together with the nitrogen atom bearing them form a pyrrolidinyl, piperidinyl, morpholinyl or thiomorpholinyl ring.

The compounds of formula II wherein each of R^4 and R^5 represents H, V is CR^6 and R^6 represents a group -CH_2-NR^7R^8 can be obtained (Scheme 1*c*) by reducing the compounds of formula I-3 wherein V is CR^6 and R^6 represents (C_1-C_3)alkoxycarbonyl using general reaction technique 5, followed by either sequential activation of the alcohol group of the intermediates of formula I*c*-1 using general reaction technique 3 and reaction with the amines of formula NHR^7R^8 using general reaction technique 1, or, depending on the nature of R^7 and R^8, by oxidation of the intermediates of formula I*c*-1 using general reaction technique 9 followed by reductive amination using general reaction technique 2. The corresponding compounds of formula II can then be obtained by removal of the protecting group using general reaction technique 4.

The derivatives of formula II wherein each of R^4 and R^5 represents H, V is CR^6 and R^6 represents either -$(CH_2)_q$-NR^7R^8 or -$(CH_2)_q$-OH wherein q is 2 or 3 can be obtained by similar methods wherein the compounds of formula I*c*-1 are oxidized into their corresponding aldehydes and further transformed into their homologous aldehydes by reaction with Ph_3P=CH-OMe or Ph_3P=CH-CHO followed by hydrolysis or hydrogenolysis respectively. These homologous aldehydes can be further processed affording the desired compounds of formula II wherein q is 2 or 3.

The compounds of formula II wherein n is 0 and each of R^4 and R^5 represents H can be prepared as described in Scheme 1*d* hereafter.



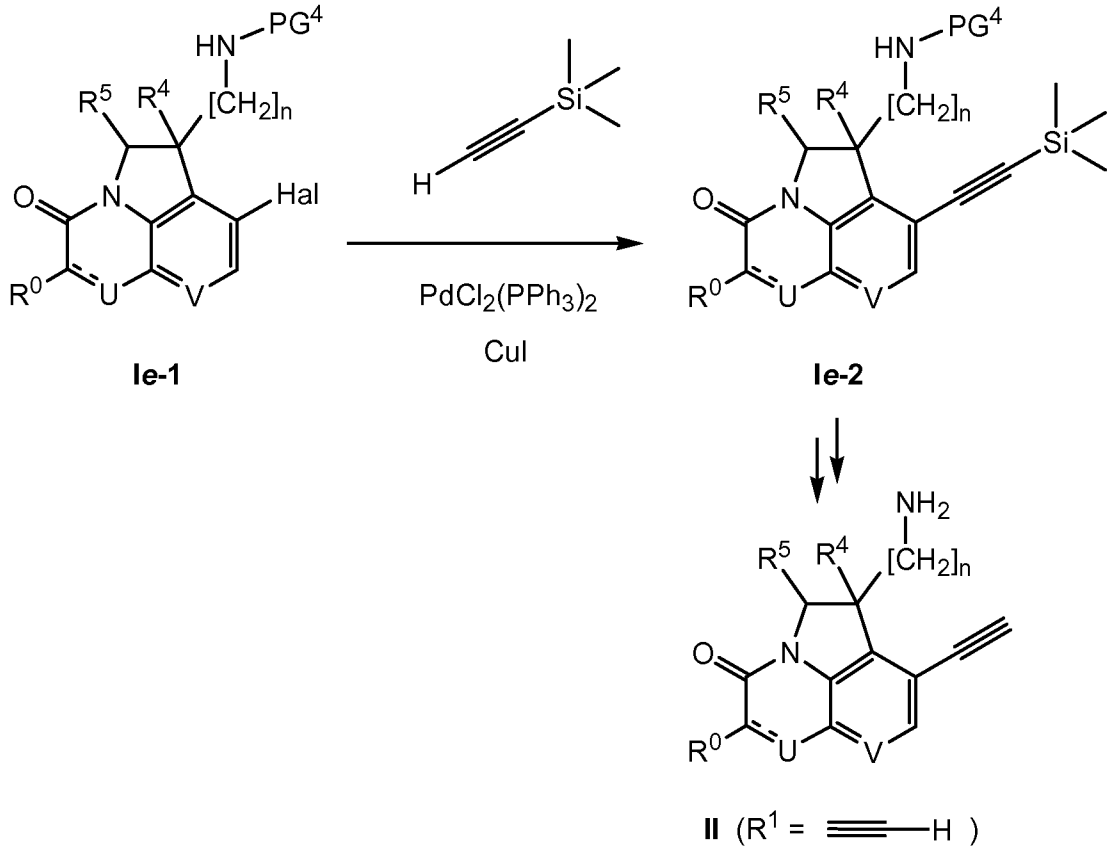
Scheme 1*d*

In Scheme 1*d*, PG^3 represents an alcohol protecting group such as TBDMS or TBDPS and R^a represents alkyl, CF_3 or tolyl.

The vinylic derivatives of formula I*d*-1 can be transformed (Scheme 1*d*) into the corresponding diol derivatives of formula I*d*-2 using general reaction technique 6. The resulting diols can selectively be transformed into the corresponding monomesylates or monotosylates using general reaction technique 3 and the secondary alcohol function can then be protected using general reaction technique 7, affording the protected derivatives of formula I*d*-3 which can be cyclised under thermal conditions. The alcohol protecting group in the compounds of formula I*d*-4 can be removed using general reaction technique 8,

affording the free alcohols of formula I*d*-5. The corresponding compounds of formula II can be obtained after formation of the corresponding azide derivatives (by reaction with DPPA under Mitsunobu conditions; see *Synthesis* (1981), 1) followed by formation of the corresponding amines using general reaction technique 12. The compounds of formula I*d*-5 wherein R^0 is H can also be obtained by dihydroxylation of the vinyl derivatives of formula I*d*-6 using general reaction technique 6 followed by formation the corresponding carbonate derivatives of formula I*d*-8 after reaction with CDI or triphosgene and final treatment with a base such as Cs_2CO_3.The compounds of formulae I*d*-4, I*d*-5 and II wherein "-----" is absent and U represents CH_2 or NH can be obtained by hydrogenation of the corresponding compounds of formulae I*d*-4, I*d*-5 and II wherein "-----" is a bond and U represents CH or N.

The compounds of formula II wherein R^1 represents ethynyl can be prepared as shown in Scheme 1*e* hereafter.

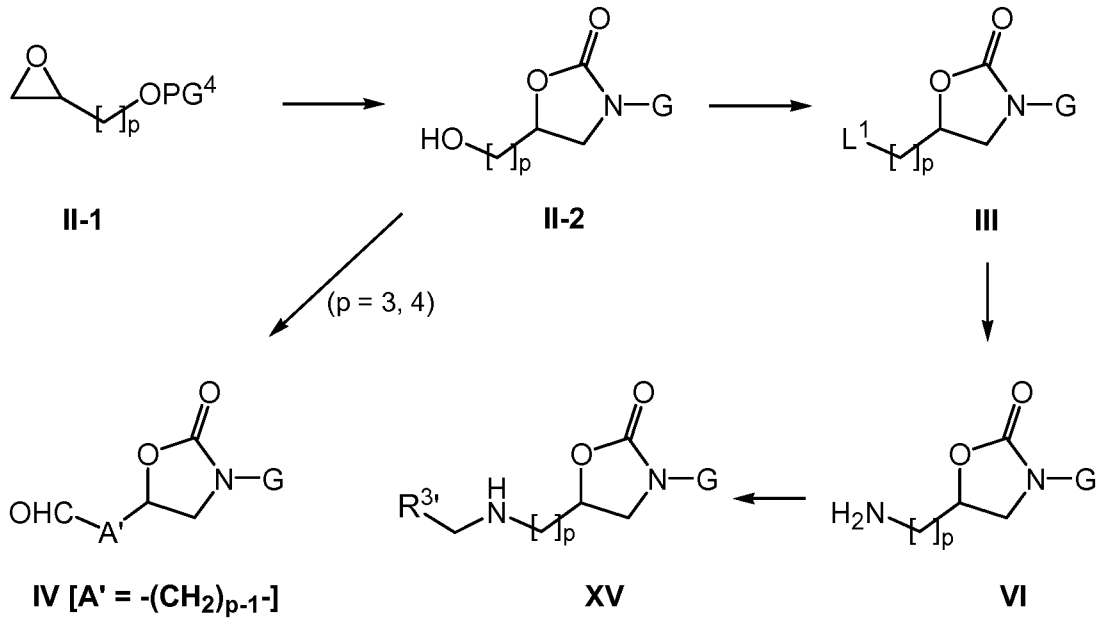


Scheme 1*e*

In Scheme 1*e*, Hal represents a halogen atom such as bromine and PG^4 represents an amino protecting group such as Boc or Fmoc.

The compounds of formula I*e*-1 can be treated between +50°C and +110°C with ethynyl-trimethylsilane in the presence of $PdCl_2(PPh_3)_2$, CuI and a base like TEA in a solvent like dioxane, affording the compounds of formula I*e*-2. The compounds of formula II wherein R^1 represents ethynyl can then be obtained from the compounds of formula I*e*-2 after removal of the TMS group using TBAF in a solvent like THF and removal of the amino protecting group using general reaction technique 4.

The compounds of formula III wherein p is 1, 2, 3 or 4, the compounds of formula IV wherein A' represents $-(CH_2)_{p-1}-$ and p is 3 or 4, the compounds of formula VI wherein p is 1, 2, 3 or 4 and the compounds of formula XV wherein p is 1, 2, 3 or 4 can be obtained as described in Scheme 2 hereafter.

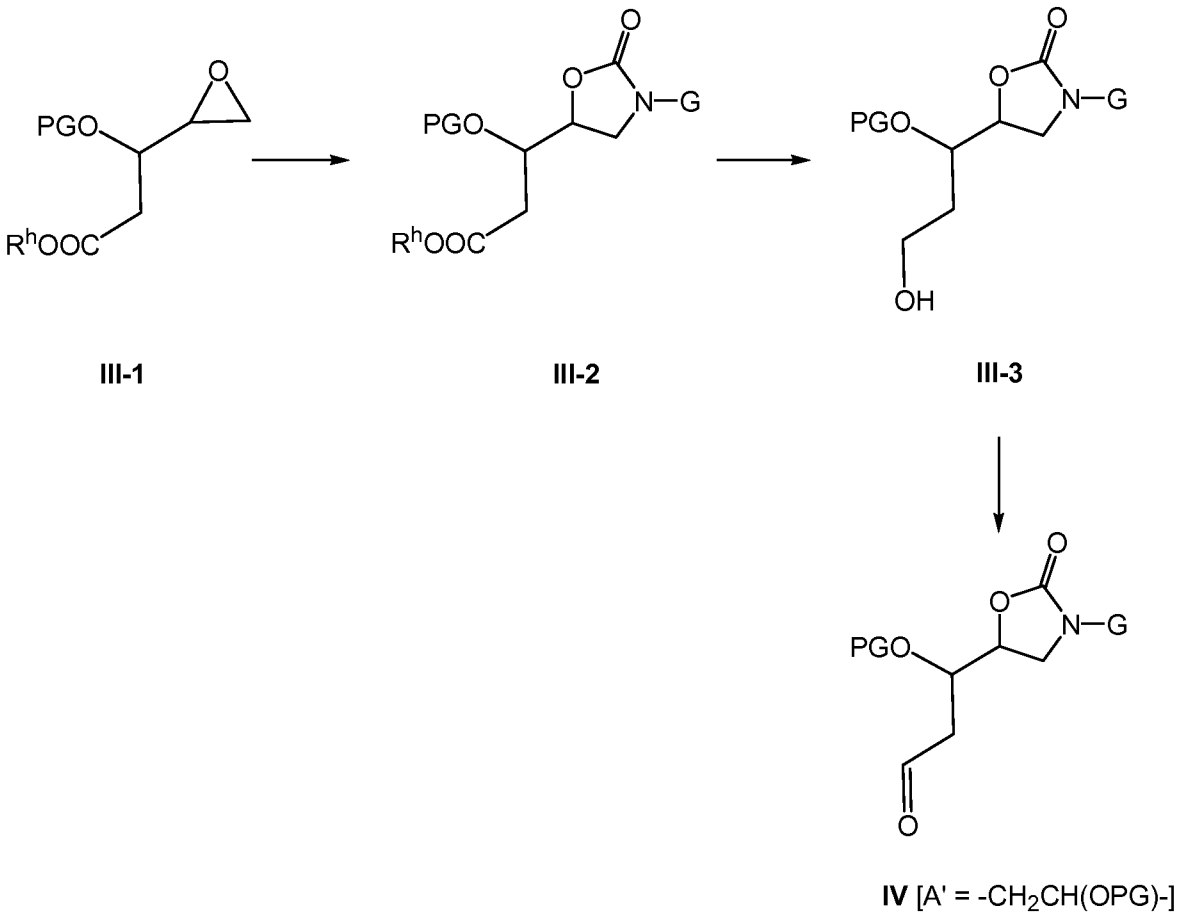


Scheme 2

In Scheme 2, PG^4 represents $-C(O)R^g$, wherein R^g represents alkyl, or PG^4 represents a silyl protecting group such as TBDMS or TBDPS.

The alcohols of formula II-2 can be obtained by reaction of the epoxides of formula II-1 with the anions of the carbamates of formula G-NH-COOR wherein R represents alkyl or benzyl in presence of a base such as KHDMS or lithium *tert*-butylate, followed by alcohol deprotection as described in general reaction technique 8. The compounds of formula III can then be obtained from the alcohols of formula II-2 using general reaction technique 3. The compounds of formula IV wherein A' represents $-(CH_2)_{p-1}-$ and p is 3 or 4 can be obtained by oxidation of the corresponding alcohol derivatives of formula II-2 using general reaction technique 9. The compounds of formula VI can be obtained by reaction of the compounds of formula III with sodium azide and subsequent transformation into the corresponding amine following general reaction technique 12. Finally, the compounds of formula XV are obtained by reaction of intermediates of formula VI with an aldehyde of formula $R^{3'}CHO$ following general reaction technique 2 or with a derivative of formula $R^{3'}CH_2L^4$ wherein $R^{3'}$ represents a silylether protected form of the group R^3 and L^4 represents a halogen such as iodine, bromine or chlorine or a group of the formula OSO_2R^a wherein R^a is alkyl, CF_3 or tolyl following general reaction technique 1.

The compounds of formula IV wherein A' is $-CH_2CH(OPG)-$, PG being a silyl protecting group such as TBDMS or TBDPS, are prepared as described in Scheme 3 hereafter.



III-1 III-2 III-3

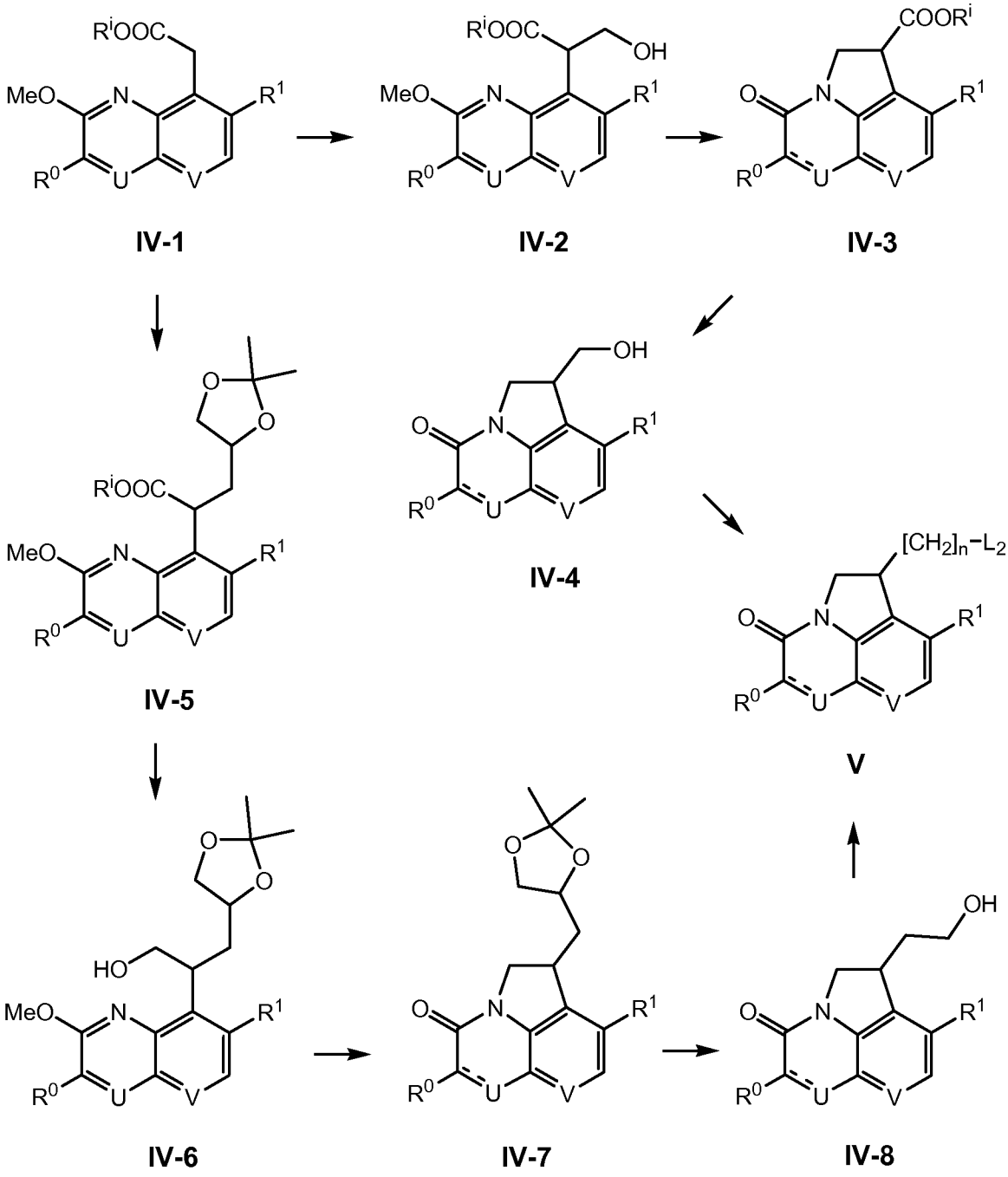
IV [A' = -$CH_2CH(OPG)$-]

Scheme 3

In Scheme 3, R^h represents alkyl (notably tBu) and PG represents an alcohol protecting group such as TBDMS or TBDPS.

The compounds of formula III-1 can be reacted (Scheme 3) with the amines of formula G-NH_2 followed by reaction with CDI, affording the oxazolidinones of formula III-2. The corresponding alcohol derivatives of formula III-3 can be obtained after reduction of the ester of formula III-2 using general reaction technique 5. The corresponding aldehydes of formula IV can then be obtained by oxidation of the alcohol derivatives of formula III-3 using general reaction technique 9.

The compounds of formula V wherein each of R^4 and R^5 represents H and n is 1 or 2 can be prepared as described in Scheme 4 hereafter.



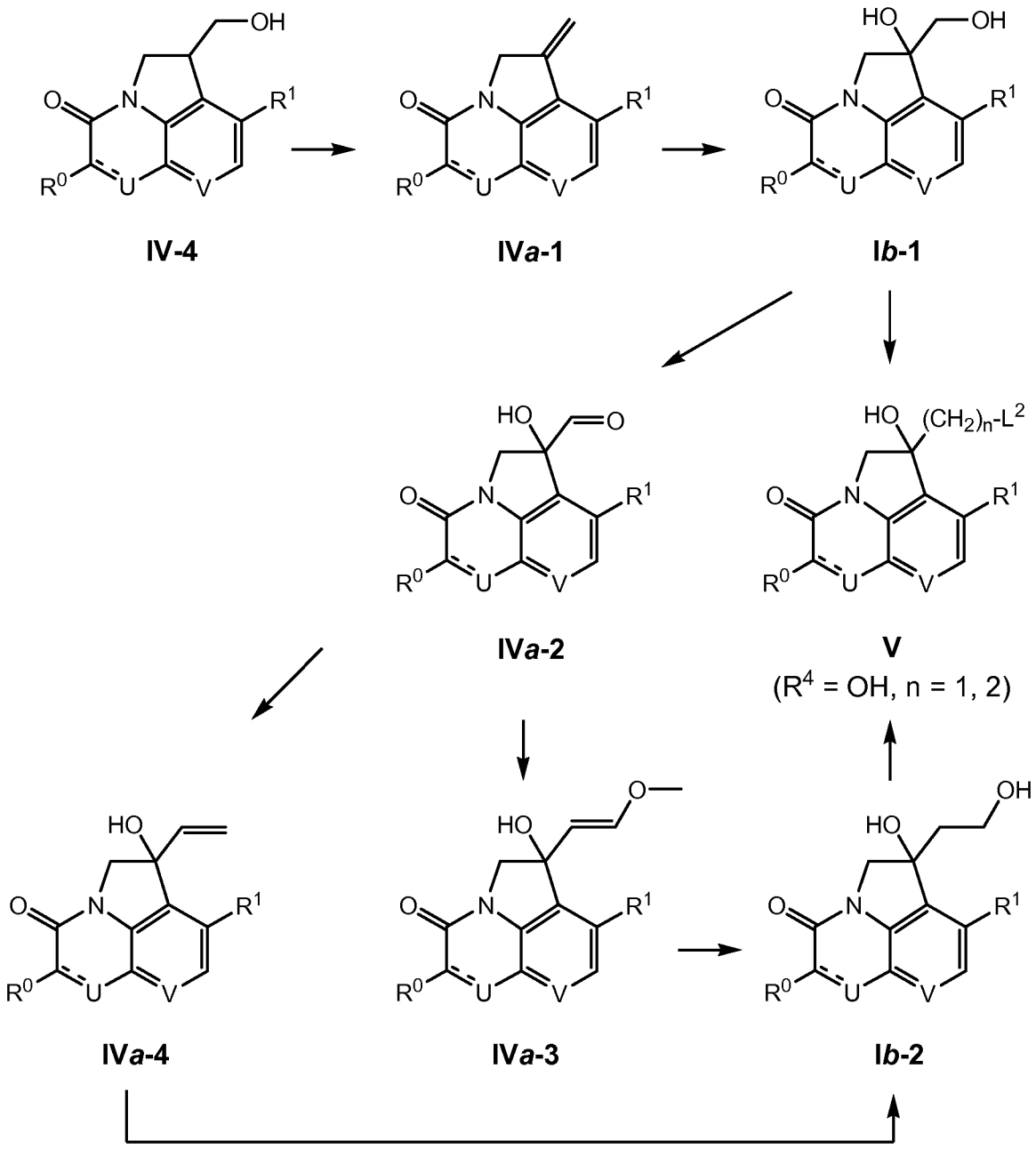
Scheme 4

In Scheme 4, R^i represents alkyl or benzyl and n is 1 or 2.

The esters of formula IV-1 can be treated with paraformaldehyde in the presence of a base such as TEA or K_2CO_3. The resulting alcohols of formula IV-2 can be activated using general reaction technique 3 and cyclised under thermal conditions. The resulting esters of formula IV-3 can be reduced using general reaction technique 5, affording the alcohols of formula IV-4, which can be activated using general reaction technique 3, affording the

compounds of formula V wherein n is 1. The carbanions of the esters of formula IV-1, generated in the presence of LDA in THF at -78°C, can also be treated with 4-(iodomethyl)-2,2-dimethyl-1,3-dioxolane (commercial), affording the esters of formula IV-5, which can be further transformed into the corresponding alcohols of formula IV-6 using general reaction technique 5. These alcohols can be activated using general reaction technique 3 and cyclised under thermal conditions, affording the tricyclic derivatives of formula IV-7. The acetonide protecting group can be removed under acidic conditions such as aq. acetone in presence of diluted aq. HCl, or an acidic cation exchange resin such as Amberlite® IR120. The corresponding diols can be cleaved in presence of $NaIO_4$ to yield the corresponding aldehydes, which can be reduced into the corresponding alcohols of formula IV-8 by treatment with a hydride reagent such as $NaBH_4$, followed by alcohol activation using general reaction technique 3, affording the compounds of formula V wherein n is 2. The compounds of formulae IV-3, IV-4, IV-7, IV-8 and V wherein "-----" is absent and U represents CH_2 or NH can be obtained by hydrogenation of the corresponding compounds of formulae IV-3, IV-4, IV-7, IV-8 and V wherein "-----" is a bond and U represents CH or N. The compounds of formulae IV-4, IV-7, IV-8 and V wherein "-----" is a bond and U represents N can also be reduced into the corresponding compounds wherein "-----" is absent and U represents NH using $NaBH_4$, whereby the transformation of the compounds of formula IV-4 wherein U represents NH into the corresponding compounds of formula V is then preferably performed after transient protection of the NH group.

The compounds of formula V wherein R^4 represents OH can be prepared as described in Scheme 4*a* hereafter.



Scheme 4*a*

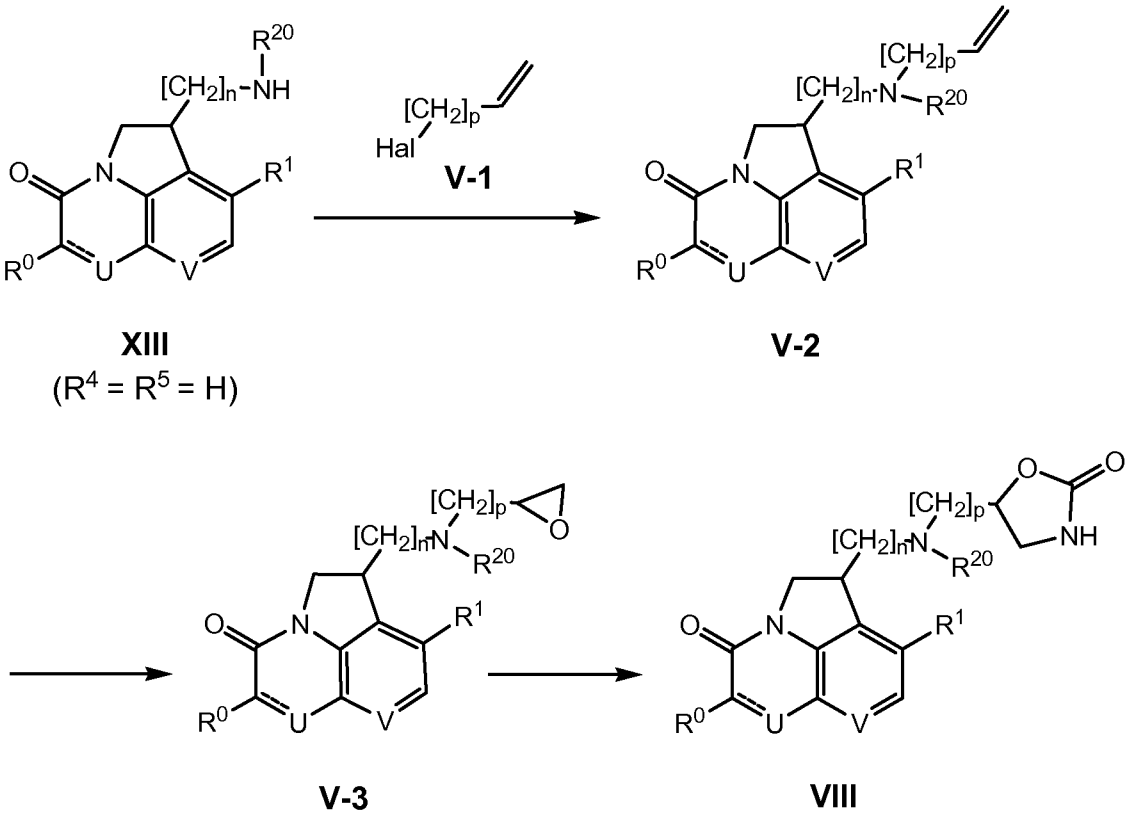
The compounds of formula V wherein R^4 is OH and n is 1 can be obtained (Scheme 4*a*) by transforming the compounds of formula IV-4 into the alkene derivatives of formula IV*a*-1 after activation of the alcohol group using general reaction technique 3 followed by treatment with a base such as DBU. The intermediate alkene derivatives of formula IV*a*-1 can be dihydroxylated using general reaction technique 6 and the primary alcohol function of the intermediates of formula I*b*-1 can then be activated using general reaction technique 3, affording the compounds of formula V wherein R^4 is OH and n is 1. The compounds of formula V wherein R^4 is OH and n is 2 can be obtained by oxidizing the

derivatives of formula I*b*-1 using general reaction technique 9, performing a Wittig reaction with methoxymethylene triphenylphosphorane and an acidic hydrolysis of the intermediate of formula IV*a*-3 and reducing the aldehyde thus obtained into the alcohol derivatives of formula I*b*-2 using general reaction technique 5 before activating the alcohol function using general reaction technique 3. The compounds of formula I*b*-2 can also be obtained by reaction of the aldehydes of formula IV*a*-2 with methylenetriphenylphosphorane followed by hydroboration of the intermediate vinyl derivatives of formula IV*a*-4 with a borane reagent such as 9-BBN, $BH_3.Me_2S$ or BH_3.THF followed by oxidation with H_2O_2 in presence of NaOH.

The compounds of formulae IV*a*-2 and V wherein "-----" is absent and U represents CH_2 or NH can be obtained by hydrogenation of the corresponding compounds wherein "-----" is a bond and U represents CH or N.

The compounds of formula VII can be obtained by oxidation of the corresponding alcohols of formulae I*b*-1, I*b*-2, IV-4 and IV-8 following general reaction technique 9.

The compounds of formula VIII wherein R^{20} represents $CH_2R^{3'}$, each of R^4 and R^5 represents H and p is 1, 2 or 3 can be obtained as described in Scheme 5 hereafter.



Scheme 5

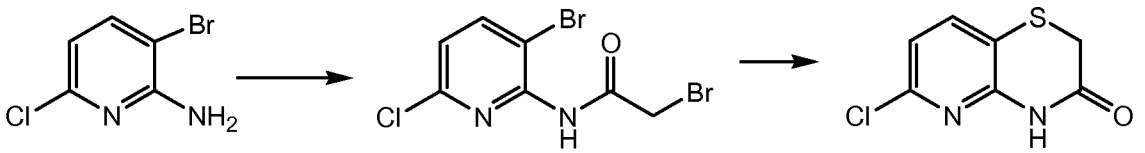
In Scheme 5, Hal represents halogen such as chlorine or bromine, R^{20} represents $CH_2R^{3'}$ and $R^{3'}$ represents hydrogen or $(C_1\text{-}C_3)$alkyl or also $R^{3'}$ represents a $(C_1\text{-}C_3)$hydroxyalkyl group the hydroxy of which is protected in the form of a silyl ether (e.g. as a TBDMS or TBDPS ether).

The amine derivatives of formula XIII wherein each of R^4 and R^5 represents H can be reacted with the halogenides of formula V-1 following general reaction technique 1. The resulting derivatives of formula V-2 can be dihydroxylated following general reaction technique 6, the primary alcohol function can be activated following general reaction technique 3 and the epoxide ring can then be formed after treatment with a base such as NaH, Na_2CO_3 or TEA. The epoxides of formula V-3 can then be treated with sodium azide followed by formation of the corresponding amines following general reaction technique 12 and subsequently be converted into their corresponding carbamates with CbzCl or Boc_2O following general reaction technique 10. The oxazolidinone ring can then be formed by reaction with NaH. The compounds of formula VIII can also be obtained by reaction of the epoxide derivatives of formula V-3 with a carbamic acid ester in the presence of a salen complex as described in *Org. Letters* (2004), **6**, 3973-3975 or *Org.*

Letters (2005), **7**, 1983-1985). The compounds of formula VIII wherein U is CH_2 or NH and "-----" is absent, can be obtained by hydrogenation of the corresponding compounds of formula VIII wherein "-----" is a bond and U represents CH or N. The compounds of formula VIII wherein "-----" is a bond and U represents N can also be reduced into the corresponding compounds wherein "-----" is absent and U represents NH using $NaBH_4$.

Certain compounds of formula IX are commercially available (e.g. G = G^1, Q = O and X = N: CAS 337463-99-7; G = G^1, Q = S and X = CH: CAS 6376-70-1; G = G^1, Q = O and X = CH: CAS 7652-29-1) or can be obtained according to known literature procedures (e.g. 7-chloro-1,8-naphthyridin-2(1*H*)-one: *J. Org. Chem.* (1990), 4744-59).

The compounds of formula IX wherein L^3 is Cl, G is a group G^1, X is N and Q is S can be obtained as described in Scheme 6 hereafter.



VI-1 **VI-2** **IX**

(L^3 = Cl, G = G^1, X = N, Q = S)

Scheme 6

Accordingly, the bromo derivative of formula VI-1 (prepared according to WO 2008/065198) can be reacted with bromoacetyl bromide and the resulting derivative of formula VI-2 can be reacted with sodium thioacetate in presence of NaOMe to afford the compound of formula IX wherein L^3 = Cl, G = G^1, X = N and Q = S.

The compounds of formula X wherein A' represents -$(CH_2)_p$- are compounds of formula I wherein R^2 represents H. The compounds of formula X wherein A' represents -CH_2CH_2CH(OPG)- can be obtained by reacting compounds of formula II wherein n is 0 with compounds of formula IV wherein A' represents -CH_2CH(OPG)- using general reaction technique 2.

The compounds of formula XI can be prepared by activation of the corresponding commercially available alcohol derivatives (e.g. 3-[(tert-butyldimethylsilyl)oxy]-1-propanol or 2-*tert*-butyldimethylsilyloxyethanol) following general reaction technique 3.

The compounds of formula XII (e.g. (*tert*-butyldimethylsilyloxy)acetaldehyde or 3-[(*tert*-butyldimethylsilyl)oxy]propionaldehyde) and XII*a* are commercially available.

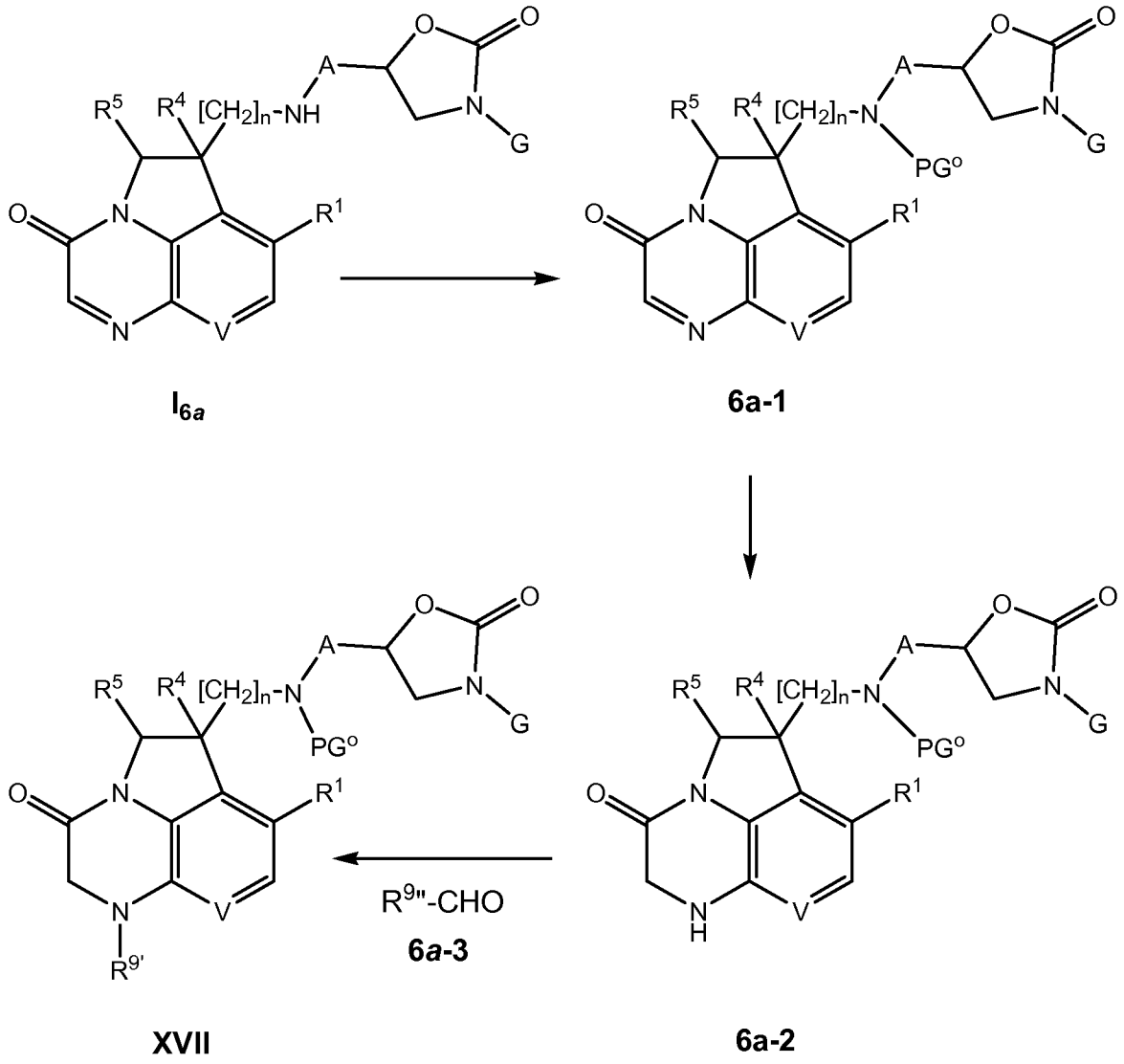
The compounds of formula XIII wherein $R^{3'}$ represent H or $(C_1\text{-}C_3)$alkyl or also $R^{3'}$ represents a $(C_1\text{-}C_3)$hydroxyalkyl group, the hydroxy of which is protected in the form of a silyl ether (e.g. as a TBDMS or TBDPS ether), can be prepared by reductive amination of the aldehydes of formula XII with the amines of formula II following general reaction technique 2. These compounds of formula XIII can also be obtained by alkylation of the amines of formula II with the derivatives of formula XI following general reaction technique 1.

The compounds of formula XIV wherein A' represents $-(CH_2)_{p-1}-$ can be prepared by oxidation of the compounds of formula II-2 or IV following general reaction technique 14. The compounds of formula XIV wherein A' represents $-CH_2CH(OPG)-$, PG being a silyl protecting group such as TBDMS or TBDPS, can be prepared by hydrolysis of the corresponding esters of formula III-2 (see Scheme 3) using a base such as LiOH in the case wherein R^h is methyl or ethyl or TFA in the case wherein R^h is tBu.

The compounds of formula XV wherein $R^{3'}$ represents hydrogen or $(C_1\text{-}C_3)$alkyl or also $R^{3'}$ represents a $(C_1\text{-}C_3)$hydroxyalkyl group, the hydroxy of which is protected in the form of a silyl ether (e.g. as a TBDMS or TBDPS ether), can be obtained by alkylation of the amines of formula VI with derivatives of formula $R^{3'}\text{-}CH_2\text{-}X$ (X being Cl, Br or I) following general reaction technique 1.

The compounds of formula XVI can be obtained from the corresponding compounds of formula I wherein R^5 represents $(CH_2)_zOH$ following general reaction technique 3.

The compounds of formula XVII can be obtained as described in Scheme 6*a* hereafter.



Scheme 6*a*

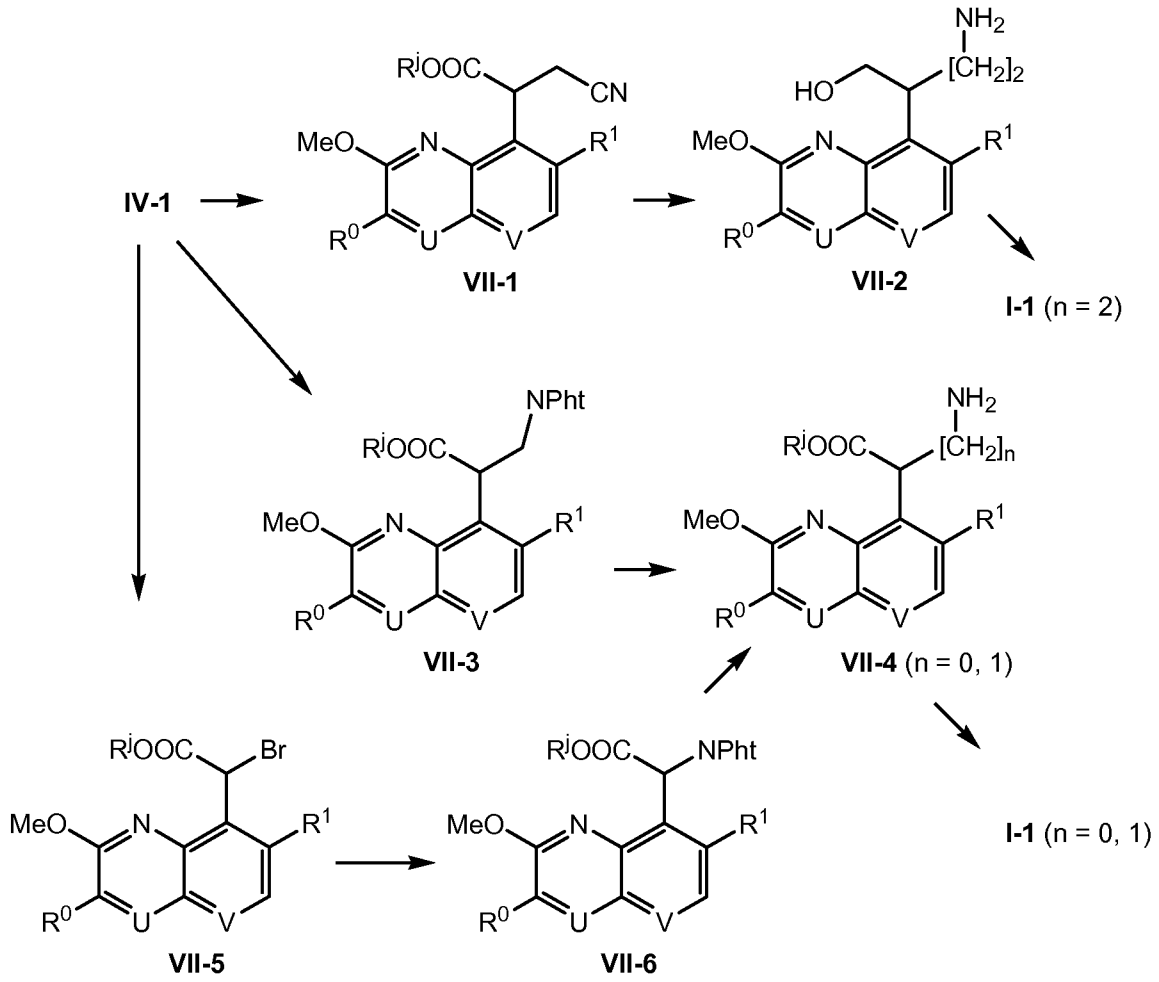
In Scheme 6*a*, PG^0 represents an amino protecting group such as Ac, Boc, Cbz or Fmoc and $R^{9"}$ represents hydrogen or $(C_1\text{-}C_2)$alkyl or also $R^{9"}$ represents a $(C_1\text{-}C_2)$hydroxyalkyl group, the hydroxy of which is protected in the form of a silyl ether (e.g. as a TBDMS or TBDPS ether).

The compounds of formula I_{6a} (i.e. the compounds of formula I wherein "-----" is a bond, R^0 is H, U is N and R^2 is H) can be protected with an amino protecting group PG^0 using general reaction technique 10. The resulting compounds of formula 6*a*-1 can be transformed into the derivatives of formula 6*a*-2 by reduction over a noble metal catalyst such as Pd/C or reduced with a hydride reagent such as $NaBH_4$. The intermediates of formula 6*a*-2 can be reacted with the aldehydes of formula 6*a*-3 following general reaction technique 2, yielding the compounds of formula XVII. Alternatively, the compounds of

formula 6*a*-2 can be transformed into the compounds of formula XVII by reaction with the alkyl halogenides of formula $R^{9'}$-Hal (Hal being a halogen atom).

Preparation of the intermediates of formulae I-1, I*a*-1, I*d*-1, I*d*-6, I*e*-1, II-1, III-1, IV-1 and XIII:

The compounds of formula I-1 can be obtained from the compounds of formula IV-1 as described in Scheme 7 hereafter.



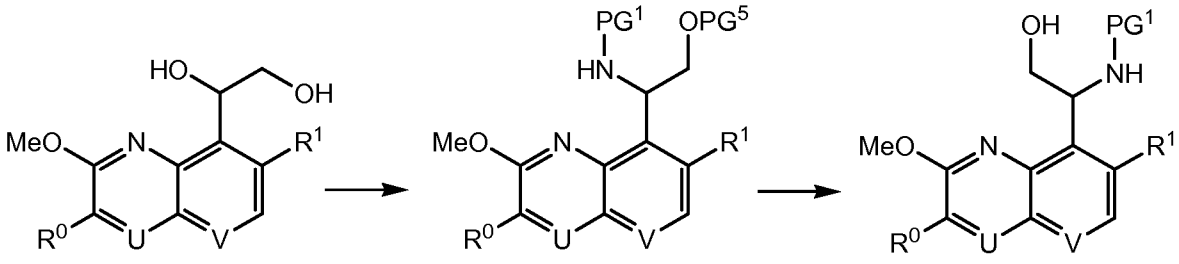
Scheme 7

In Scheme 7, R^j is alkyl or benzyl.

The esters of formula IV-1 can be reacted (Scheme 7) with bromoacetonitrile in the presence of a strong base such as LiHMDS in a solvent such as THF between -78°C and -20°C. The resulting nitrile derivatives of formula VII-1 can be reduced with LAH in a solvent such as THF or ether and the amino group of the resulting compounds of

formula VII-2 can be protected according to general reaction technique 10, affording compounds of formula I-1 wherein n is 2. The esters of formula IV-1 can also be reacted with *N*-(bromomethyl)phthalimide in presence of a strong base such as LiHMDS in a solvent such as THF between -78°C and -20°C. The resulting phthalimido derivatives of formula VII-3 can then be treated with an hydrazine derivative such as hydrazine hydrate, affording the corresponding primary amine derivatives of formula VII-4 wherein n is 1. The amino group of the derivatives of formula VII-4 can be protected according to general reaction technique 10 and the ester function reduced using general reaction technique 5 to obtain the compounds of formula I-1 wherein n is 1. The esters of formula IV-1 can also be reacted with NBS, affording the corresponding bromides of formula VII-5 which can then be reacted with potassium phthalimide. The resulting phthalimido derivatives of formula VII-6 can be treated with an hydrazine derivative such as hydrazine hydrate to obtain the corresponding primary amine derivatives of formula VII-4 wherein n is 0. The amino group of the derivatives of formula VII-4 can then be protected according to general reaction technique 10 and the ester function reduced using general reaction technique 5, affording compounds of formula I-1 wherein n is 0.

The compounds of formula I-1 wherein n is 0 can furthermore be obtained from the compounds of formula III-2 as described in Scheme 7*a* hereafter.



III-2 **VII*a*-1** **I-1** (n = 0)

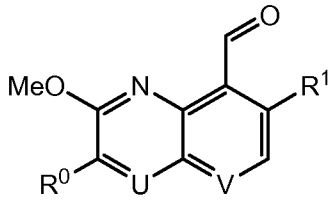
Scheme 7*a*

In Scheme 7*a*, PG^1 represents an amino protecting group such as Boc or Fmoc and PG^5 represents an alcohol protecting group such as TBDMS or TBDPS.

The compounds of formula I-1 wherein n is 0 can also be obtained (Scheme 7*a*) from the alkene derivatives of formula III-2. The primary alcohol function of the diols of formula III-2 can be protected using general reaction technique 7 before conversion of the secondary alcohol group into the corresponding azide by activation of the alcohol under

Mitsunobu conditions (in the presence of PPh_3 and DEAD or DIAD in a solvent such as THF, DMF, DCM or DME between –20°C and 60°C, as reviewed by O. Mitsunobu in *Synthesis* (1981), 1) reaction with DPPA, formation of the primary amine using general reaction technique 12 and formation of the carbamate using general reaction technique 10, to obtain the compounds of formula VII*a*-1. The alcohol protecting group of the intermediates of formula VII*a*-1 can then be removed using general reaction technique 8.

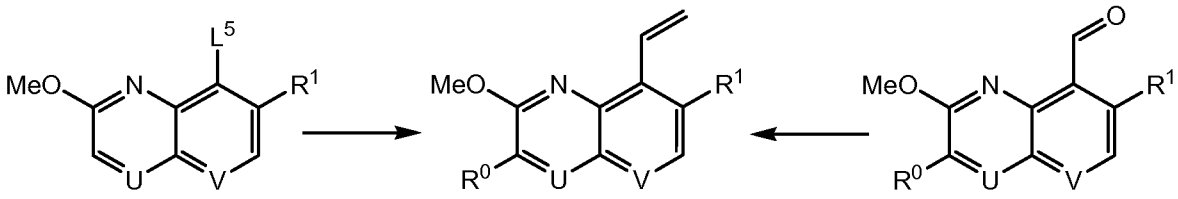
The compounds of formula I*a*-1 can be obtained from the aldehydes of formula VIII-2



VIII-2

by Wittig reaction with an alkoxycarbonylmethylene triphenylphosphorane.

The compounds of formula I*d*-1 can be prepared according to WO 02/08224, WO 2004/058144 or WO 2008/126024 or as described in Scheme 8 hereafter.



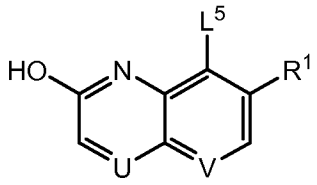
VIII-1 **I*d*-1** **VIII-2**

Scheme 8

In Scheme 8, L^5 represents halogen (such as bromine) or OTf.

The compounds of formula VIII-1 (see Scheme 8) can be reacted with trivinylboroxin in presence of a palladium catalyst such as tetrakis(triphenylphosphine)palladium, affording the compounds of formula I*d*-1 wherein R^0 represents H. The compounds of formula I*d*-1 (including those wherein R^0 represents (C_1-C_3)alkoxy) can also be obtained by reacting the aldehydes of formula VIII-2 with methylenetriphenylphosphorane.

The compounds of formula I*d*-6 can be obtained in analogy to the compounds of formula I*d*-1 starting from the derivatives of formula VIII-3



VIII-3

(commercially available or prepared according to WO 2008/148867, WO 2008/003690, WO 2006/125974 or WO 2008/150827).

The compounds of formula I*e*-1 can be obtained by protection of the amino group of the corresponding compounds of formula II wherein R^1 represents halogen using general reaction technique 10.

The compounds of formula II-1 wherein p is 1 and PG^4 is $-C(O)R^g$, R^g being alkyl, are commercially available. The compounds of formula II-1 wherein p is 2 or 3 and PG^4 is TBDMS can be prepared according to WO 2007/144423 or EP 518672.

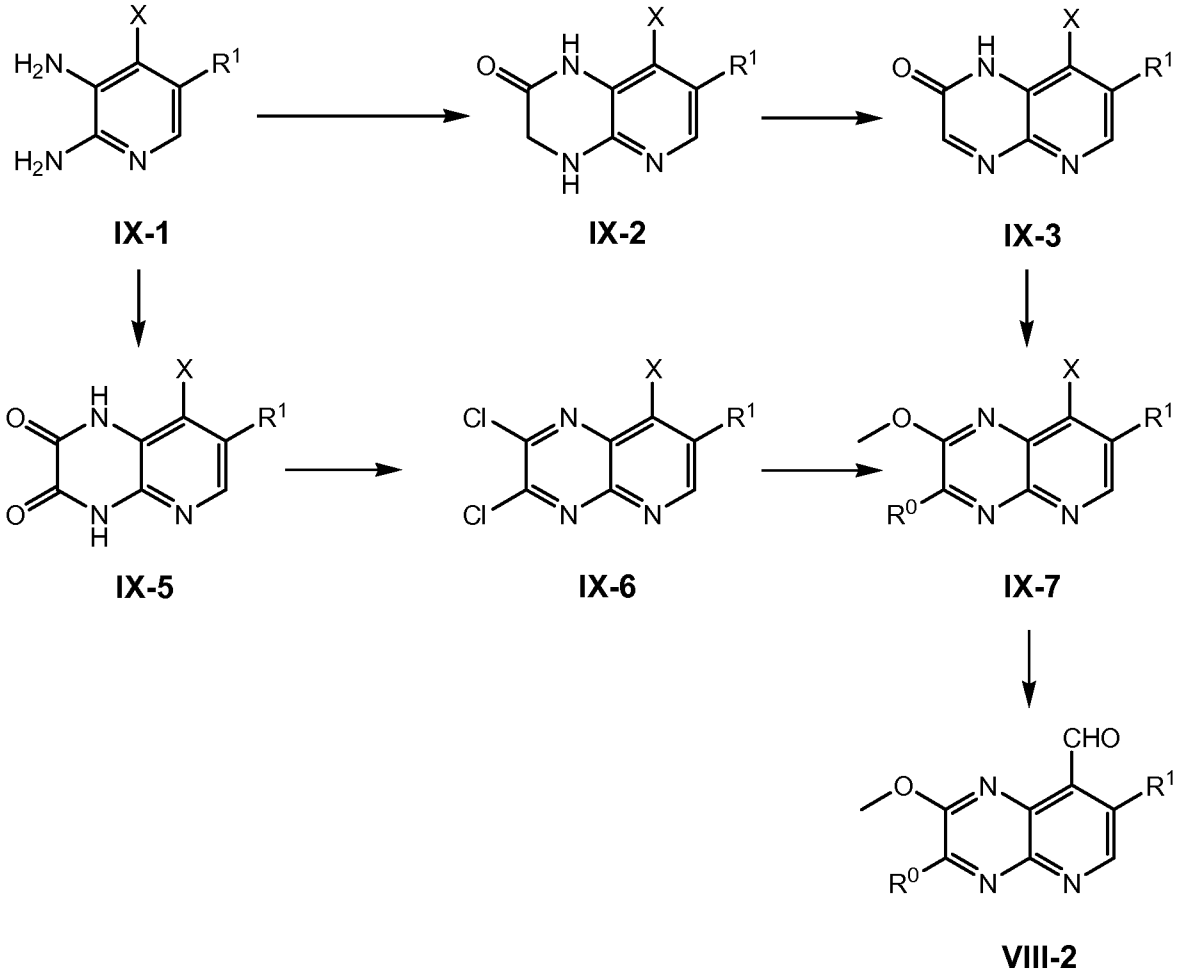
The compounds of formula III-1 wherein PG is TBDMS can be prepared according or in analogy to *Bioorganic & Medicinal Chemistry Letters* (1996), **6**(8), 991-994.

The compounds of formula IV-1 can be prepared as described in WO 2007/122258, WO 2007/115947 and WO 2007/081597.

The compounds of formula VIII-1 wherein R^1 is H and L^5 is OTf can be prepared according to WO 2004/002490. The compounds of formula VIII-1 wherein R^1 is F can be prepared in analogy to the compounds of formula VIII-1 wherein R^1 is Cl as described in WO 2006/021448.

The compounds of formula VIII-2 wherein R^0 is H or methoxy, R^1 is H or F and one of U and V is CH while the other is CH or N can be prepared according to WO 98/17672, WO 2006/046552, WO 2008/126024 or WO 2008/152603.

The compounds of formula VIII-2 wherein U is N, V is N and R^0 is H or methoxy can be prepared as described in Scheme 9 hereafter.

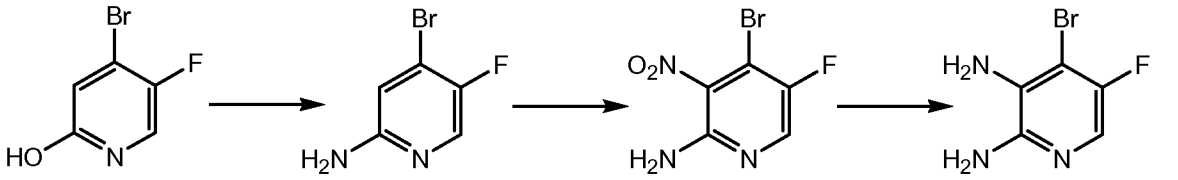


Scheme 9

In Scheme 9, X represents halogen such as bromine or chlorine.

The diamino derivatives of formula IX-1 can be reacted with bromoacetic acid, affording the intermediates of formula IX-2 which can then be oxidised using MnO_2. The aromatic intermediates of formula IX-3 can be reacted with methyl iodide in the presence of $CsCO_3$, affording the compounds of formula IX-7 wherein R^0 is H. The compounds of formula IX-7 wherein R^0 is OMe can be obtained by reacting the compounds of formula IX-1 with diethyl glyoxylate, affording the intermediates of formula IX-5 which can further be transformed into the derivatives of formula IX-6 by reaction with $POCl_3$ and the derivatives of formula IX-7 wherein R^0 is OMe after reaction with NaOMe in MeOH. The compounds of formula IX-7 can then be transformed into the derivatives of formula VIII-2 after reaction with a strong base such as *n*-BuLi and trapping the generated intermediates with DMF.

The compounds of formula IX-1 wherein R^1 is H can be prepared as described in US 5,298,518. The compound of formula IX-1 wherein X is Br and R^1 is F can be obtained as summarised in Scheme 10 hereafter.



X-1 **X-2** **X-3** **IX-1**

(R^1 = F; X = Br)

Scheme 10

The commercially available pyridine derivative of formula X-1 can be transformed into the corresponding aminopyridine derivative of formula X-2 by reaction with $POCl_3$ followed by ammonia. The intermediate of formula X-2 can then be reacted with HNO_3/AcOH and further reduced (e.g. with Zn /HCl), thus affording the compound of formula IX-1 wherein X is Br and R^1 is F.

Particular embodiments of the invention are described in the following Examples, which serve to illustrate the invention in more detail without limiting its scope in any way.

EXAMPLES

All temperatures are stated in °C. Compounds are characterized by ^{1}H-NMR (300 MHz) (Varian Oxford); or by ^{1}H-NMR (400 MHz) (Bruker Advance 400). Chemical shifts δ are given in ppm relative to the solvent used; multiplicities: s = singlet, d = doublet, t = triplet, q = quadruplet, p = pentuplet, hex = hexet, hep = heptet, m = multiplet, br. = broad, coupling constants are given in Hz. Alternatively compounds are characterized by LC-MS (Sciex API 2000 with Agilent 1100 Binary Pump with DAD and ELSD or an Agilent quadrupole MS 6140 with Agilent 1200 Binary Pump, DAD and ELSD); by TLC (TLC plates from Merck, Silica gel 60 F_{254}); or by melting point. Compounds are purified by chromatography on Silica gel 60A. NH_4OH as used for CC is 25% aq.

The HPLCs are done over a stationary phase such as a rapid resolution Zorbax SB C18 (1.8 µm) column, or a rapid resolution Zorbax Eclipse Plus C18 (1.8 µm) column. Typical

HPLC conditions are a gradient of eluent A (water:MeCN 95:5 with 0.1% of formic acid, in presence or not of 5 mmol/L ammonium formate) and eluent B (MeCN:water 95:5 with 0.1% of formic acid, in the presence or not of 5 mmol/L ammonium formate), at a flow rate of 0.8 to 5 mL/min. Racemates can be separated into their enantiomers as described before. Preferred conditions of chiral HPLC are: ChiralPak AD (4.6 x 250 mm, 5 µm) column, using an isocratic mixture (e.g. at a ratio of 10/90) of eluent A (EtOH, in presence of diethylamine in an amount of eg. 0.1%) and eluent B (Hex), at rt, at a flow rate of e.g. 0.8 mL/min.

General procedures:

Procedure A: LAH reduction of esters:

To a solution of ester (1 mmol) in THF (15 mL), cooled to -10°C, is added in one portion LAH (3.5 eq.). The mixture is stirred at the same temperature for 0.5h, then at 0°C/rt until completion of the reaction (1-3 h). Water (0.4 mL) is carefully added, followed by 2*M* NaOH (0.8 mL) and water (0.4 mL). After stirring for 5 min, Na_2SO_4 (1 g) is added and the mixture is stirred for 15 min. The solids are filtered off and thoroughly washed with EA. The filtrate is concentrated under reduced pressure.

Procedure B: Boc deprotection:

The Boc protected amine (1 mmol) is dissolved in DCM (5 mL) and treated with Et_3SiH (optional; 0.2 mL, 1.1 eq.) and TFA (2 mL). The mixture is stirred at rt for 1 h, concentrated *in vacuo* and taken up in DCM/aq. NH_4OH. The org. layer is washed with water, dried over $MgSO_4$ and concentrated under reduced pressure.

Procedure C: alkylation of amines with mesylates:

A solution of amine (1.0-2.3 mmol), mesylate (1 mmol) and DIPEA (1.1 mmol) in dry DMSO is heated to 70°C until completion of the reaction (1-5 days). After cooling, water and EA are added and the phases are separated. The aq. layer is extracted two more times with EA and the combined org. layers are washed with water (3x) and brine, dried over $MgSO_4$ and concentrated under reduced pressure. The residue is then purified by CC.

Procedure D: alkylation of amines with iodides:

A solution of amine (1 mmol), iodide (1 mmol) and DIPEA (1.1 mmol) in dry DMSO is heated to 70°C until completion of the reaction (1-3 days). After cooling, water and EA are added and the phases are separated. The aq. layer is extracted two more times with EA and the combined org. layers are washed with water (3x) and brine, dried over $MgSO_4$ and concentrated under reduced pressure. The residue is then purified by CC.

Procedure E: reductive amination:

A solution of amine (1 mmol) and aldehyde (1 mmol) in DCE/MeOH (1-1 to 4-1, 10 mL) is treated with $NaBH(OAc)_3$ (2 mmol). The mixture is stirred at rt until completion of the reaction (1-4 h), diluted with DCM and treated with aq. NH_4OH. The phases are separated. The aq. layer is extracted two more times with DCM and the combined org. layers are washed with water and brine, dried over $MgSO_4$ and concentrated under reduced pressure. The residue is then purified by CC.

Procedure F: hydrogenation:

A solution of unsaturated substrate (1 mmol) in MeOH (20 mL) and AcOH (optional, 20 mL) is hydrogenated over 10% Pd/C (200 mg) for 20 h. The catalyst is filtered off, washed with MeOH/DCM and concentrated. Water and 28% aq. NH_4OH are added and the mixture is extracted with DCM/MeOH 9:1. The org. layer is dried over $MgSO_4$, concentrated and purified by CC.

Procedure G: Boc protection:

Boc_2O (1.05 eq.) and TEA (1.5 eq.) are added at rt to a solution of the corresponding amine (1.0 eq.) in THF. The reaction mixture is stirred at rt for 1 h, concentrated to dryness and purified by CC.

Procedure H: mesylate formation:

TEA or DIPEA (2 eq.) and MsCl (1.2 eq.) are added at 0°C to a solution of the required alcohol (1 eq.) in DCM or DCE. The reaction is stirred 1 h at this temperature. In the case the resulting mesylate can undergo cyclization to form a tricyclic system, the reaction mixture is further stirred between rt and 45°C for 6 to 72 h. Sat. aq. $NaHCO_3$ is then added and the mixture is extracted with DCM (3x). The combined org. layers are dried over

$MgSO_4$, filtered and concentrated under reduced pressure to afford the desired mesylate which can be used as such in a further step.

Procedure I: oxazolidinone formation with CDI:

A solution of the required aminoalcohol (1 eq.) in THF is treated with CDI (1.5 eq.) and heated at 50°C overnight. The mixture is cooled to rt, diluted with EA and washed with water. The org. layer is washed with 0.5*M* HCl (optionally) and water, dried over $MgSO_4$ and concentrated. The residue is either triturated with an org. solvent, crystallized from Hept/EA or purified by CC.

Procedure J: deprotection of TBDMS ethers:

A solution of TBDMS ether (1 eq) in THF is treated with TBAF (1*M* solution in THF, 1.2 eq.) at 0°C. The solution is stirred at 0°C for 6 h. The mixture is partitioned between water and EA and the aq. phase is extracted with EA (3x). The combined org. layers are washed with water (3x) and brine, dried over $MgSO_4$ and concentrated under reduced pressure. The residue is triturated with an org. solvent or purified by CC.

Procedure K: Finkelstein-like iodide formation:

A suspension of the mesylate (1 eq.) and NaI (3 eq.) in 2-butanone is heated at 85°C between 3 h and 3 days. After cooling, the mixture is diluted with ether/EA and treated with 10% aq. $Na_2S_2O_3$. After stirring for 10 min, the phases are separated and the aq. layer was washed with EA. The combined org. layers are washed with water (2x), dried over $MgSO_4$ and concentrated under reduced pressure. The residue is triturated with an org. solvent.

Procedure L: asymmetric dihydroxylation (*Chem. Rev.* (1994), **94**, 2483):

A mixture of olefin (1 mmol) in t-BuOH/H_2O (1:1, 10 mL) at rt is treated with methylsulfonamide (1 eq.) and AD-mix α or β (1.5 g). The mixture is vigorously stirred at rt until completion of reaction, $Na_2S_2O_3$ (1.5 g) is added and the mixture diluted with EA (30 mL). The phases are separated and the aq. phase is extracted once more with EA. The combined org. layers are washed with water and brine, dried over $MgSO_4$ and concentrated. The residue is purified by CC.

Procedure M: TBDMS protection:

A solution of alcohol (1 eq.) and imidazole (1.1 eq.) in THF (10 mL/mmol) at 0°C is treated dropwise with a solution of TBDMSCl (1 eq.) in THF. The mixture is stirred at rt until complete conversion. The mixture is diluted with EA, washed with water and brine, dried over $MgSO_4$ and concentrated. The residue is purified by CC.

Procedure N: Mitsunobu reaction:

To a solution of alcohol (1 eq.) and PPh_3 (1.1 eq.) in THF (2 ml/mmol) cooled to 0°C, DPPA (1.1 eq.) and DIAD (1.2 eq.) are added dropwise and the mixture warmed to rt over 1 h and stirred at this temperature until completion of reaction. The mixture is concentrated under reduced pressure and the residue purified by CC.

Procedure N': Mitsunobu reaction with Staudinger conditions and Boc protection:

After performing procedure N with the alcohol (1 eq.) as previously described, the azide is dissolved in THF/water (9:1) and treated with PPh_3 (1.2 eq.) and the resulting solution heated at 50°C until complete conversion to the amine. The mixture is cooled an treated with Boc_2O (1.5 eq) and stirred at rt overnight. The volatiles are removed under reduced pressure and the residue purified by CC to give the Boc-protected amine.

Preparation A: *rac*-1-aminomethyl-9-fluoro-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one:

A.i. (7-fluoro-2-methoxy-quinolin-8-yl)-acetonitrile:

To a solution of 8-bromomethyl-7-fluoro-2-methoxy-quinoline (20.0 g, 74 mmol; prepared as in WO 2007/081597) in DMF (530 mL) was added KCN (22.1 g, 339 mmol) and the mixture was stirred at 70°C overnight. The mixture was concentrated, water and EA were added and the aq. layer was extracted with EA. The combined org layers were washed with brine, dried over $MgSO_4$ and concentrated to afford the title intermediate as a beige solid (16.13 g, 100% yield).
MS (ESI, m/z): 217.4 [$M+H^+$].

A.ii. (7-fluoro-2-methoxy-quinolin-8-yl)-acetic acid methyl ester:

To a solution of intermediate A.i (16.1 g, 75 mmol) in MeOH (270 mL) was added TMSCl (32 mL, 3.38 eq) and the solution was stirred at 80°C for 3 h. The mixture was concentrated under reduced pressure and partitioned between EA and water. The phases were separated and the aq. layer was extracted with EA. The combined org. layers were washed with 2*M* NaOH, water and brine, dried over $MgSO_4$, concentrated and purified by CC (DCM) to afford the title intermediate as a colourless solid (8.13 g, 44% yield).
MS (ESI, m/z): 250.2 [$M+H^+$].

A.iii. rac-3-(1,3-dioxo-1,3-dihydro-isoindol-2-yl)-2-(7-fluoro-2-methoxy-quinolin-8-yl)-propionic acid methyl ester:

To a solution of LiHMDS (31.3 mL, 1*M* in THF) in THF (40 mL) was added at -78°C a solution of intermediate A.ii (6.50 g, 26 mmol) in THF (50 mL) over 10 min. After stirring for 1 h at -78°C, a solution of *N*-(bromomethyl)phthalimide in THF (50 mL) was added dropwise over 10 min. The mixture was stirred at -78°C for 1 h and then at rt overnight. The resulting solution was quenched with 1*N* HCl (260 mL) and extracted with DCM. The combined org. layers were washed with water, dried over $MgSO_4$, concentrated and purified by CC (Hept/EA 1:1). The resulting solid was triturated with EA to afford the title intermediate as a colourless solid (2.42 g, 23% yield).
MS (ESI, m/z): 409.3 [$M+H^+$].

A.iv. rac-3-amino-2-(7-fluoro-2-methoxy-quinolin-8-yl)-propionic acid methyl ester:

To a suspension of intermediate A.iii (2.40 g, 5.88 mmol) in EtOH (40 mL) was added dropwise hydrazine monohydrate (1.43 mL, 5 eq.) at rt. The mixture was stirred for 2 h at rt and then concentrated. The residue was taken up in EA and 10% citric acid and the layers were separated. The aq. phase was treated another time with EA. The aq. phase was basified with NH_4OH and extracted twice with DCM. The combined DCM phases were dried over $MgSO_4$ and concentrated to afford the title intermediate as a pale yellow oil (1.62 g, 99% yield).
MS (ESI, m/z): 279.4 [$M+H^+$].

A.v. rac-3-tert-butoxycarbonylamino-2-(7-fluoro-2-methoxy-quinolin-8-yl)-propionic acid methyl ester :

Starting from intermediate A.iv (1.62 g, 5.82 mmol) and using procedure G, the title intermediate was obtained as a colourless solid (1.87 g, 85% yield).

MS (ESI, m/z): 379.2 [$M+H^+$].

A.vi. rac-[2-(7-fluoro-2-methoxy-quinolin-8-yl)-3-hydroxy-propyl]-carbamic acid tert-butyl ester:

Starting from intermediate A.v and using procedure A, the title intermediate was obtained as a colourless solid (1.69 g, 98% yield).

MS (ESI, m/z): 351.3 [$M+H^+$].

A.vii. rac-(9-fluoro-4-oxo-1,2-dihydro-4H-pyrrolo[3,2,1-ij]quinolin-1-ylmethyl)-carbamic acid tert-butyl ester:

Starting from intermediate A.vi (1.68 g, 4.8 mmol) and using procedure H, the title intermediate was obtained as a beige solid (1.56 g, 100% yield).

MS (ESI, m/z): 319.3 [$M+H^+$].

A.viii. rac-1-aminomethyl-9-fluoro-1,2-dihydro-pyrrolo[3,2,1-ij]quinolin-4-one:

Starting from intermediate A.vii and using procedure B, the title compound was obtained as a pale orange solid (1.08 g, quant.).

^{1}H NMR ($CDCl_3$) δ: 7.66 (d, J = 9.4 Hz, 1H), 7.40 (dd, J = 8.8, 4.7 Hz, 1H), 6.88 (m, 1H), 6.61 (d, J = 9.4 Hz, 1H), 4.53 (dd, J = 12.9, 9.4 Hz, 1H), 4.36 (dd, J = 12.9, 4.7 Hz, 1H), 3.95 (m, 1H), 1.97 (m, 2H), 3.15 (m, 2H).

MS (ESI, m/z): 219.2 [$M+H^+$].

Preparation B: *rac*-1-(2-amino-ethyl)-9-fluoro-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one:

B.i. rac-3-cyano-2-(7-fluoro-2-methoxy-quinolin-8-yl)-propionic acid methyl ester:

LiHMDS (18.4 mL, 1.1 eq., 1*M* in THF) was added at -78°C within 15 min to a solution of intermediate A.ii (4.17 g, 16.7 mmol) in THF (40 mL). The resulting mixture was stirred at -78°C for 2 h. Bromoacetonitrile (3.0 g, 1.5 eq.) was added within 20 min and stirring was

continued at -78°C for 2 h. The reaction was quenched with water and extracted with EA (3x). The combined org. phases were washed with brine, dried over $MgSO_4$, filtered and concentrated. The residue was purified by CC (Hept/EA 2:1 to 1:1) to afford the title intermediate as a yellow solid (3.96 g, 82% yield).

MS (ESI, m/z): 289.4 [$M+H^+$].

B.ii. rac-4-amino-2-(7-fluoro-2-methoxy-quinolin-8-yl)-butan-1-ol:

To a solution of $AlCl_3$ (4.0 g, 30 mmol) in ether (150 mL) were added LAH (30 mL, 1*M* in THF) dropwise within 10 min at -78°C. After stirring for 15 min, a suspension of intermediate B.i (3.94 g, 13.7 mmol) in ether (120 mL) was added within 15 min. The suspension was then stirred at rt for 4 h, cooled to 0°C, quenched with sat. aq. Na_2SO_4. The mixture was basified with NH_4OH and extracted with EA (3x). The combined org. phases were dried over Na_2SO_4, filtered and concentrated to afford the title intermediate as a yellow oil (3.86 g, quant.) which was used as such in the next step.

MS (ESI, m/z): 265.4 [$M+H^+$].

B.iii. rac-[3-(7-fluoro-2-methoxy-quinolin-8-yl)-4-hydroxy-butyl]-carbamic acid tert-butyl ester:

Starting from intermediate B.ii (3.85 g, 14.57 mmol) and using procedure G, the title intermediate was obtained as a yellow oil (2.69 g, 51% yield).

MS (ESI, m/z): 365.1 [$M+H^+$].

B.iv. rac-[2-(9-fluoro-4-oxo-1,2-dihydro-4H-pyrrolo[3,2,1-ij]quinolin-1-yl)-ethyl]-carbamic acid tert-butyl ester:

Starting from intermediate B.iii (2.68 g, 7.4 mmol) and using procedure H, the title intermediate was obtained as a pale orange solid (2.67 g, quant.) which was used as such in the next step.

MS (ESI, m/z): 333.1 [$M+H^+$].

B.v. rac-1-(2-amino-ethyl)-9-fluoro-1,2-dihydro-pyrrolo[3,2,1-ij]quinolin-4-one:

Starting from intermediate B.iv and using procedure B, the title compound was obtained after CC (DCM/MeOH/NH_4OH 1000:50:4) as a pale orange solid (1.34 g, 72% yield).

^{1}H NMR ($CDCl_3$) δ: 7.68 (d, J = 9.3 Hz, 1H), 7.40 (dd, J = 8.8, 4.8 Hz, 1H), 6.89 (m, 1H), 6.63 (d, J = 9.5 Hz, 1H), 4.56 (dd, J = 12.8, 9.3 Hz, 1H), 4.21 (dd, J = 12.5, 4.8 Hz, 1H), 4.00 (m, 1H), 2.89 (m, 2H), 2.18 (m, 1H), 1.86 (m, 1H), 1.24 (m, 2H).
MS (ESI, m/z): 233.5 [$M+H^+$].

Preparation C: *rac*-1-amino-9-fluoro-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one:

C.i. rac-bromo-(7-fluoro-2-methoxy-quinolin-8-yl)-acetic acid methyl ester:

NBS (1.6 g) and AIBN (0.1 g) were added to a mixture of intermediate A.ii (1.50 g, 6.0 mmol) in trifluorotoluene (30 mL). The mixture was heated at 80°C under a sunlamp beam for 5 h. After cooling, the reaction mixture was concentrated. The residue was taken in EA and washed twice with 10% sodium thiosulfate, dried over Na_2SO_4, filtered and concentrated to dryness. The residue was triturated with Hept/EA to afford the title intermediate as a colourless solid (1.42 g, 72% yield).
MS (ESI, m/z): 328.2 [$M+H^+$].

C.ii. rac-(1,3-dioxo-1,3-dihydro-isoindol-2-yl)-(7-fluoro-2-methoxy-quinolin-8-yl)-acetic acid methyl ester:

To a solution of intermediate C.i (1.31 g, 4.0 mmol) in dry DMF (25 mL) was added potassium phthalimide (1.24 g, 6.6 mmol) under Ar. The resulting solution was stirred at 120 °C for 1 h. After cooling to rt, water was added and the mixture was extracted with EA. The org. layer was washed with water and brine, dried over $MgSO_4$ and concentrated. The residue was crystallized from Hept/EA to afford the title intermediate as a beige solid (1.04 g, 66% yield).
MS (ESI, m/z): 395.1 [$M+H^+$].

C.iii. rac-amino-(7-fluoro-2-methoxy-quinolin-8-yl)-acetic acid methyl ester:

To a solution of intermediate C.ii (714 mg, 1.81 mmol) in EtOH (10 mL) was added dropwise hydrazine monohydrate (0.9 mL, 10 eq.) at rt. The mixture was stirred for 3 h at rt, after which a precipitate had formed, which was filtered off. The filtrate was concentrated under reduced pressure and partitioned between EA and 10% citric acid. The aq. layer was washed once more with EA and then basified using NH_4OH. The aq. layer

was extracted with DCM and the org. layer was concentrated under reduced pressure to afford the title intermediate as a colourless solid (398 mg, 83% yield).
MS (ESI, m/z): 265.5 [$M+H^+$].

C.iv. rac-tert-butoxycarbonylamino-(7-fluoro-2-methoxy-quinolin-8-yl)-acetic acid methyl ester:

Starting from intermediate C.iii (380 mg, 1.44 mmol) and using procedure G, the title intermediate was obtained as a colourless solid (560 mg, 100% yield).
MS (ESI, m/z): 365.0 [$M+H^+$].

C.v. rac-[1-(7-fluoro-2-methoxy-quinolin-8-yl)-2-hydroxy-ethyl]-carbamic acid tert-butyl ester:

Starting from intermediate C.iv and using procedure A, the title intermediate was obtained as a pale yellow solid (473 mg, 92% yield).
MS (ESI, m/z): 337.3 [$M+H^+$].

C.vi. rac-(9-fluoro-4-oxo-1,2-dihydro-4H-pyrrolo[3,2,1-ij]quinolin-1-yl)-carbamic acid tert-butyl ester:

TEA (0.4 mL, 2 eq.) and MsCl (0.13 mL, 1.2 eq.) were added at 0°C to a solution of intermediate C.v (470 mg, 1.40 mmol) in DCM (10 mL). The reaction proceeded for 20 min at this temperature. Sodium bicarbonate and DCM were added. The two layers were decanted and the aq. layer was extracted once more with DCM. The combined org. layers were dried over Na_2SO_4, filtered and concentrated to dryness. The residue was carried on without further purification. A solution of the crude mesylate in toluene (20 mL) was heated at 85°C overnight. After cooling to rt, water and EA were added and the layers separated. The aq. layer was extracted once more with EA and the combined org. layers were washed with saturated $NaHCO_3$ and concentrated. The residue was triturated with ether/EA to afford the title intermediate as a colourless solid (193 mg, 45% yield).
MS (ESI, m/z): 305.0 [$M+H^+$].

C.vii. rac-1-amino-9-fluoro-1,2-dihydro-pyrrolo[3,2,1-ij]quinolin-4-one:

Starting from intermediate C.vi and using procedure B, the title compound was obtained as a beige solid (128 mg, 100% yield).

^{1}H NMR (DMSO-d_6) δ: 7.88 (d, J = 9.4 Hz, 1H), 7.61 (dd, J = 8.5, 5.0 Hz, 1H), 6.99 (dd, J = 9.7, 8.8 Hz, 1H), 6.49 (d, J = 9.4 Hz, 1H), 4.92 (dd, J = 8.8, 4.4 Hz, 1H), 4.44 (dd, J = 12.9, 8.8 Hz, 1H), 3.86 (dd, J = 12.6, 3.8 Hz, 1H), 2.29 (s, 2H).
MS (ESI, m/z): 205.1 [$M+H^+$].

Preparation D: (*R*)-4-amino-4,5-dihydro-pyrrolo[3,2,1-*de*][1,5]naphthyridin-7-one:

D.i. (R)-2-azido-2-(6-methoxy-[1,5]naphthyridin-4-yl)-ethanol and (S)-2-azido-1-(6-methoxy-[1,5]naphthyridin-4-yl)-ethanol:

A mixture of (*S*)-2-methoxy-8-oxiranyl-[1,5]naphthyridine (4 g, 20 mmol; prepared as in WO 2006/002047), NH_4Cl (2.7 g, 2.5 eq) and NaN_3 (3.2 g, 2.5 eq.) in MeOH (100 mL) and water (2 mL) was heated at 65°C for 4 h, filtered and concentrated *in vacuo*. The residue was taken up in EA and washed with sat. $NaHCO_3$ and brine, dried over $MgSO_4$ and concentrated. The residue was purified by CC (Hept/EA 1:1, 1:2, EA) to give a 3:2 mixture of regioisomers (5 g, 100% yield) which was used as such in the next step.

D.ii. [(R)-2-hydroxy-1-(6-methoxy-[1,5]naphthyridin-4-yl)-ethyl]-carbamic acid tert-butyl ester:

A solution of intermediate D.i (mixture of isomers, 5 g, 20.7 mmol) in THF/MeOH 1:1 (200 mL) was hydrogenated over Pd/C (10%, 2.2 g) and 1 bar of H_2 for 1 h. The catalyst was filtered off and the filtrate concentrated under reduced pressure. The residue was dissolved in DCM (150 mL) and Boc_2O (6.8 g, 1.5 eq.) was added. The mixture was stirred at rt for 2 h, concentrated *in vacuo* and purified by CC (EA/Hept 2:1, EA, EA/MeOH 9:1) to give the more polar, desired isomer as a colourless foam (2.8 g, 43% yield).
^{1}H NMR (DMSO-d_6) δ: 8.72 (d, J = 4.4 Hz, 1 H), 8.24 (d, J = 9.1 Hz, 1H), 7.56 (d, J = 4.4 Hz, 1H), 7.33 (d, J = 8.5 Hz, 1H), 7.25 (d, J = 9.1 Hz, 1H), 5.64 (m, 1H), 3.99 (m, 3H), 3.78 (m, 1H), 3.58 (dd, J = 10.8, 7.0 Hz, 1H), 1.35 (s, 9H).

D.iii. ((R)-7-oxo-4,5-dihydro-7H-pyrrolo[3,2,1-de][1,5]naphthyridin-4-yl)-carbamic acid tert-butyl ester:

Starting from intermediate D.ii (2.8 g, 8.8 mmol) and using procedure H, the title intermediate was obtained as an off-white solid (1.2 g, 47% yield) after CC (EA, EA/MeOH 9:1) and crystallisation from ether/EA.

MS (ESI, m/z): 288.4 [M+H$^+$].

D.iv. (R)-4-amino-4,5-dihydro-pyrrolo[3,2,1-de][1,5]naphthyridin-7-one:

A solution of intermediate D.iii (1 g, 3.48 mmol) in dioxane was treated with 4*N* HCl in dioxane (4 mL). The beige suspension was stirred at rt overnight, filtered and washed with ether and dried to give the dihydrochloride (475 mg, 52% yield). The free base was generated with the use of ion exchange resin (Dowex 50), eluting with methanolic ammonia to give a beige solid (0.3 g).

^{1}H NMR (DMSO-d_6) δ: 8.55 (d, J = 4.7 Hz, 1H), 7.99 (d, J = 9.7 Hz, 1H), 7.65 (dd, J = 4.7, 0.9 Hz, 1H), 6.82 (d, J = 9.7 Hz, 2H), 5.12 (ddd, J = 8.8, 4.1, 0.9 Hz, 1H), 4.53 (dd, J = 13.2, 8.8 Hz, 1H), 4.05 (m, 3H).

Preparation E: *rac*-4-aminomethyl-3-fluoro-4,5-dihydro-pyrrolo[3,2,1-*de*][1,5]naphthyridin-7-one:

E.i. 2-(3-fluoro-6-methoxy-[1,5]naphthyridin-4-yl)-malonic acid diethyl ester:

Diethyl malonate (12.4 mL, 81.7 mmol) was added to a suspension of NaH (3.0 g, 47.9 mmol, 60% in mineral oil) in dioxane (35 mL). The mixture was stirred at rt for 5 min and then heated at 80°C for 1 h. After cooling to rt, CuBr (1.4 g, 9.6 mmol) and 8-bromo-7-fluoro-2-methoxy-[1,5]naphthyridine (7.0 g, 27.2 mmol, prepared according to WO 2007/122258) were added. The mixture was stirred at 100°C for 6 h. After cooling to rt, 10% $NaHSO_4$ (100 mL) was added. The mixture was stirred for 30 min at rt. The two layers were decanted and the aq. layer was extracted three times with EA (3 x 150 mL). The combined org. layers were washed with brine, dried over Na_2SO_4, filtered and concentrated to dryness. The residue was purified by CC (Hept-EA 3:1 then 1:1) to afford the title intermediate as a yellow oil (8.22 g, 90% yield).

MS (ESI, m/z): 337.3 [M+H$^+$].

E.ii. (3-fluoro-6-methoxy-[1,5]naphthyridin-4-yl)-acetic acid ethyl ester:

Water (0.53 mL, 1.2 eq.) and LiCl (2.07 g, 2 eq.) were added to a solution of intermediate E.i (8.22 g, 24.4 mmol) in DMSO (170 mL). The mixture was heated to 110°C for 16 h and another 2.34 g of LiCl were added. The mixture was further heated at 110 °C for 16 h. The solvent was then evaporated under reduced pressure (bath

temperature = 70°C, p = 0.5 mbar). The residue was partitioned between 10% $NaHSO_4$ (200 mL) and ether (200 mL). The aq. layer was extracted with ether (2 x 200 mL). The combined org. layers were filtered through a pad of silica gel. The filtrate was concentrated to dryness to afford the title intermediate as a brown oil (5.62 g, 87% yield).

MS (ESI, m/z): 265.3 [$M+H^+$].

E.iii. rac-3-(1,3-dioxo-1,3-dihydro-isoindol-2-yl)-2-(3-fluoro-6-methoxy-[1,5]naphthyridin-4-yl)-propionic acid ethyl ester:

To a solution of LiHMDS (4.54 mL, 1*M* in THF) in THF (11 mL) was added at -78°C a solution of intermediate E.ii (1.0 g, 3.78 mmol) in THF (3 mL) over 10 min. After stirring for 1 h at -78°C a solution of *N*-(bromomethyl)phthalimide (1.09 g, 1.2 eq.) in THF (4 mL) was added dropwise over 10 min. The mixture was stirred at -78°C for 1 h and then at rt overnight. The resulting solution was quenched with 1*N* HCl and extracted with DCM. The combined org. layers were washed with water, dried over $MgSO_4$, concentrated and purified by CC (Hept/EA 1:1) to afford the title intermediate as an off-white solid (0.361 g, 43% yield).

MS (ESI, m/z): 424.4 [$M+H^+$].

E.iv. rac-3-amino-2-(3-fluoro-6-methoxy-[1,5]naphthyridin-4-yl)-propionic acid ethyl ester:

To a suspension of intermediate E.iii (368 mg, 0.87 mmol) in EtOH (6 mL) was added dropwise hydrazine monohydrate (0.21 mL, 5 eq.) at rt. The mixture was stirred for 2 h at rt and then concentrated. The residue was taken up in EA and 10% citric acid and the layers were separated. The aq. phase was treated another time with EA. The aq. phase was basified with NH_4OH and extracted twice with DCM. The combined DCM phases were dried over $MgSO_4$ and concentrated to afford the title intermediate as a yellow oil (0.21 g, 82% yield).

MS (ESI, m/z): 203.0 [$M+H^+$].

E.v. rac-3-tert-butoxycarbonylamino-2-(3-fluoro-6-methoxy-[1,5]naphthyridin-4-yl)-propionic acid ethyl ester:

Starting from intermediate E.iv (0.21 g, 0.72 mmol) and using procedure G, the title intermediate was obtained as a pale yellow foam (0.23 g, 83% yield).

MS (ESI, m/z): 394.2 [M+H$^+$].

E.vi. rac-[2-(3-fluoro-6-methoxy-[1,5]naphthyridin-4-yl)-3-hydroxy-propyl]-carbamic acid tert-butyl ester:

Starting from intermediate E.v (0.225 g, 0.57 mmol) and using procedure A, the title intermediate was obtained as a yellow foam (0.20 g, 100% yield).
MS (ESI, m/z): 202.2 [M+H$^+$].

E.vii. rac-(3-fluoro-7-oxo-4,5-dihydro-7H-pyrrolo[3,2,1-de][1,5]naphthyridin-4-ylmethyl)-carbamic acid tert-butyl ester:

Starting from intermediate E.vi (0.20 g, 0.57 mmol) and using procedure H, the title intermediate was obtained as a beige solid (0.204 g, quant.) which was used as such in the next step.
MS (ESI, m/z): 320.2 [M+H$^+$].

E.viii. rac-4-aminomethyl-3-fluoro-4,5-dihydro-pyrrolo[3,2,1-de][1,5]naphthyridin-7-one:

Starting from intermediate E.vii and using procedure B, the title compound was obtained as a brown oil (17 mg, 13% yield).
MS (ESI, m/z): 220.3 [M+H$^+$].

Preparation F: *rac*-4-(2-amino-ethyl)-3-fluoro-4,5-dihydro-pyrrolo[3,2,1-*de*][1,5]naphthyridin-7-one:

F.i. rac-3-cyano-2-(3-fluoro-6-methoxy-[1,5]naphthyridin-4-yl)-propionic acid ethyl ester:

LiHMDS (4.2 mL, 1.1 eq., 1*M* in THF) was added at -78°C within 15 min to a solution of intermediate E.ii (1.5 g, 5.68 mmol) in THF (15 mL). The resulting mixture was stirred at -78°C for 2 h. Then bromoacetonitrile (1.02 g, 1.5 eq.) was added within 20 min and stirring was continued at -78°C for 2 h. The reaction was quenched with water and extracted with EA (3x). The combined org. phases were washed with brine, dried over $MgSO_4$, filtered and concentrated. The residue was purified by CC (Hept/EA 1:1) to afford the title intermediate as a yellow oil (1.30 g, 76% yield).
MS (ESI, m/z): 304.2 [M+H$^+$].

F.ii. rac-4-amino-2-(3-fluoro-6-methoxy-[1,5]naphthyridin-4-yl)-butan-1-ol:

To a solution of $AlCl_3$ (1.3 g, 9.9 mmol) in ether (60 mL) were added LAH (9.9 mL, 1*M* in THF) dropwise within 10 min at -78°C. After stirring for 15 min a suspension of intermediate F.i (1.36 g, 4.50 mmol) in ether (50 mL) was added within 15 min. The suspension was then stirred for 1 h at -78°C and for 1 h at -30°C. The mixture was then stirred for 2 h at 0°C, quenched with sat. aq. Na_2SO_4. The mixture was basified with NH_4OH and extracted with EA (3x). The combined org. phases were dried over Na_2SO_4, filtered and concentrated. The residue was purified by CC (DCM/MeOH/NH_4OH 1000:100:8) to afford the title intermediate as a yellow oil (0.30 g, 25% yield).

MS (ESI, m/z): 266.3 [$M+H^+$].

F.iii. rac-[3-(3-fluoro-6-methoxy-[1,5]naphthyridin-4-yl)-4-hydroxy-butyl]-carbamic acid tert-butyl ester:

Starting from intermediate F.ii (424 mg, 1.60 mmol) and using procedure G, the title intermediate was obtained as a a yellow solid (360 mg, 62% yield).

MS (ESI, m/z): 366.2 [$M+H^+$].

F.iv. rac-[2-(3-fluoro-7-oxo-4,5-dihydro-7H-pyrrolo[3,2,1-de][1,5]naphthyridin-4-yl)-ethyl]-carbamic acid tert-butyl ester:

Starting from intermediate F.iii (360 mg, 0.99 mmol) and using procedure H, the title intermediate was obtained as a brown solid (360 mg, quant.) which was used as such in the next step.

MS (ESI, m/z): 334.1 [$M+H^+$].

F.v. rac-4-(2-amino-ethyl)-3-fluoro-4,5-dihydro-pyrrolo[3,2,1-de][1,5]naphthyridin-7-one:

Starting from intermediate F.iv and using procedure B, the title compound was obtained after CC (DCM/MeOH/NH_4OH 1000:100:8) as a yellow solid (130 mg, 49% yield).

MS (ESI, m/z): 234.3 [$M+H^+$].

Preparation G: *rac*-6-amino-5,6-dihydro-pyrrolo[1,2,3-*de*]quinoxalin-3-one:

G.i. rac-2-azido-2-(3-methoxy-quinoxalin-5-yl)-ethanol:

A mixture of 2-methoxy-8-oxiranyl-quinoxaline (4.7 g, 23 mmol; prepared as in WO 2004/002490), NH_4Cl (2.2 g, 1.8 eq.) and NaN_3 (3.8 g, 2.5 eq.) in MeOH (60 mL) was heated at 65°C for 5 h, filtered and concentrated *in vacuo*. The residue was taken up in EA and washed with sat. $NaHCO_3$ and brine, dried over $MgSO_4$ and concentrated. The residue was purified by CC (Hept/EA 1:1) to give the desired intermediate as a beige solid (4.4 g, 77% yield).

^{1}H NMR ($CDCl_3$) δ: 8.52 (s, 1H), 8.02 (dd, J = 8.5, 1.5 Hz, 1H), 7.77 (dd, J = 7.3, 1.5 Hz, 1H), 7.60 (m, 1H), 5.90 (dd, J = 7.6, 4.1 Hz, 1H), 4.13 (s, 3H), 4.01 (dd, J = 11.4, 3.8 Hz, 1H), 3.87 (dd, J = 11.4, 7.9 Hz, 1H).

G.ii. rac-[2-hydroxy-1-(3-methoxy-quinoxalin-5-yl)-ethyl]-carbamic acid tert-butyl ester:

A solution of intermediate G.i (4.48 g, 18.2 mmol) in THF (100 mL) and water (3.2 mL) was treated with PPh_3 (5.3 g, 1.1 eq) and heated at 50°C for 2 h. The mixture was concentrated to dryness and redissolved in ether/EA. The org. phase was extracted twice with 1*M* HCl. The organic phase was discarded and the aqueous phase basified with 6*N* NaOH and extracted with DCM, dried over $MgSO_4$ and concentrated. The residue was dissolved in DCM (150 mL) and treated with Boc_2O (4.8 g, 1.2 eq.). The mixture was stirred at rt for 1 h, concentrated *in vacuo* and purified by CC (EA/Hept 2:1, EA) to give the desired intermediate as a colourless foam (4.9 g, 84% yield).

^{1}H NMR (DMSO-d_6) δ: 8.60 (s, 1H), 7.87 (dd, J = 8.2, 1.5 Hz, 1H), 7.70 (m, 1H), 7.58 (m, 1H), 7.26 (m, 1H), 5.64 (td, J = 7.6, 4.1 Hz, 1H), 4.76 (t, J = 5.9 Hz, 1H), 4.06 (s, 3H), 3.71 (m, 1H), 3.54 (m, 1H), 1.35 (s, 11H).

G.iii. rac-(3-oxo-5,6-dihydro-3H-pyrrolo[1,2,3-de]quinoxalin-6-yl)-carbamic acid tert-butyl ester:

Starting from intermediate G.ii (4.47 g, 14 mmol) and following procedure H, the reaction mixture was refluxed in DCE (100 mL) for 3 days. The mixture was cooled to rt, diluted with DCM, washed with water, dried over $MgSO_4$ and concentrated. The residue was crystallized from ether/EA to give a mixture of the desired intermediate and the

corresponding oxazolidinone as an off-white solid (2.2 g) which was used in the next step without further purification or characterization.

G.iv. rac-6-amino-5,6-dihydro-pyrrolo[1,2,3-de]quinoxalin-3-one:

A solution of intermediate G.iii (2.17 g, 3.8 mmol) in DCM (10 mL) was treated with TFA (5 mL). The mixture was stirred at rt for 1 h, concentrated *in vacuo* and partitioned between DCM and water. The org. phase containing impurities was discarded and the aq. phase basified with NH_4OH and extracted several times with DCM/MeOH 9:1. The combined org. phases were dried over $MgSO_4$ and concentrated to give the desired compound as an orange solid (0.36 g, 51% yield).

^{1}H NMR (DMSO-d_6) δ: 8.17 (s, 1 H), 7.67 (d, J = 8.2 Hz, 1H), 7.58 (dt, J = 7.3, 0.9 Hz, 1H), 7.32 (dd, J = 7.9, 7.3 Hz, 1H), 4.77 (dd, J = 8.5, 4.4 Hz, 1H), 4.50 (dd, J = 13.2, 8.5 Hz, 1H), 3.86 (dd, J = 13.2, 4.4 Hz, 1H).

Preparation H: methanesulfonic acid 2-[(*S*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]oxazin-6-yl)-oxazolidin-5-yl]-ethyl ester:

H.i. tert-butyl-dimethyl-[(R)-2-oxiranyl-ethoxy]-silane and (2S)-4-(tert-butyl-dimethyl-silanyloxy)-butane-1,2-diol:

The title intermediates were prepared in analogy to Kishi et al., *Org. Lett.* (2005), **7**, 3997, (intermediate S2-3) via hydrolytic kinetic resolution of *(RS)-tert*-butyl-dimethyl-(2-oxiranyl-ethoxy)-silane (prepared according to *J. Org. Chem.* (2008), **73**, 1093). Two compounds were isolated after CC (Hept/EA 2:1).

First eluting compound: *tert*-butyl-dimethyl-[(*R*)-2-oxiranyl-ethoxy]-silane (colourless oil, 25.3 g, 48% yield). ^{1}H NMR ($CDCl_3$) δ: 3.77 (t, J = 6.4 Hz, 2H), 3.04 (m, 1H), 2.78 (m, 1H), 2.51 (dd, J = 5.0, 2.9 Hz, 1H), 1.74 (m, 2H), 0.90 (d, J = 0.6 Hz, 9H), 0.06 (s, 6H).

Second eluting compound: (2*S*)-4-(*tert*-butyl-dimethyl-silanyloxy)-butane-1,2-diol (colourless oil, 24.9 g, 43% yield). ^{1}H NMR ($CDCl_3$) δ: 3.89 (m, 3H), 3.62 (s, 1H), 3.53 (m, 1H), 3.42 (br. s, 1H), 2.29 (m, 1H), 1.70 (m, 2H), 0.90 (s, 9H), 0.09 (s, 6H).

H.ii. Toluene-4-sulfonic acid (S)-4-(tert-butyl-dimethyl-silanyloxy)-2-hydroxy-butyl ester:

To a solution of (2*S*)-4-(*tert*-butyl-dimethyl-silanyloxy)-butane-1,2-diol (23.9 g, 108 mmol, second eluting compound in H.i and DMAP (2.65 g, 0.2 eq.) in DCM (80 mL)

cooled to 0°C were added TEA (43.8 mL, 2.9 eq.) and a solution of pTsCl (20.7 g, 1.1 eq.) in DCM (15 mL). The mixture was stirred at rt for 5 h, poured into sat. aq. $NaHCO_3$ and extracted with DCM. The org. layer was dried over $MgSO_4$ and concentrated. The residue was purified by CC (Hept/EA 2:1) to afford the title intermediate as a colourless oil (31.3 g, 77% yield).

^{1}H NMR ($CDCl_3$) δ: 7.80 (d, J = 7.6 Hz, 2H), 7.34 (d, J = 7.6 Hz, 2H), 4.02 (m, 3H), 3.80 (m, 2H), 2.45 (s, 3H), 1.70 (m, 2H), 1.27 (m, 1H), 0.87 (s, 9H), 0.05 (s, 6H).

H.iii. (2S)-tert-butyl-dimethyl-(2-oxiranyl-ethoxy)-silane:

2M NaOH (35 mL) was added to a solution of intermediate H.ii (31.1 g, 83.1 mmol) in THF (350 mL) and the resulting mixture was vigorously stirred at rt for 3 h. The mixture was taken in 1*M* NaOH (200 mL) and extracted with TBME (2x). The combined org. layers were washed with water and brine, dried over $MgSO_4$ and concentrated. The resulting oil was purified by Kugelrohr-distillation (ca. 70°C at 0.1 mbar) to afford the title intermediate as a colourless oil (14.7 g, 87% yield).

^{1}H NMR ($CDCl_3$) δ: 3.77 (t, J = 6.4 Hz, 2H), 3.04 (m, 1H), 2.78 (m, 1H), 2.51 (dd, J = 5.0, 2.9 Hz, 1H), 1.74 (m, 2H), 0.90 (d, J = 0.6 Hz, 9H), 0.06 (s, 6H).

H.iv. 6-[(S)-4-(tert-butyl-dimethyl-silanyloxy)-2-hydroxy-butylamino]-4H-benzo[1,4]oxazin-3-one:

A solution of 6-amino-4*H*-benzo[1,4]oxazin-3-one (5.03 g, 30.6 mmol; commercial) and intermediate H.iii (6.2 g, 1 eq.) in EtOH/H_2O (9:1; 180 mL) was heated at 80°C for 2 days. The mixture was concentrated under reduced pressure. Residual starting aniline could be removed by addition of Et_2O/MeOH followed by filtration. The filtrate containing the product was concentrated under reduced pressure to afford the title intermediate as a brown oil (9.45 g, 84% yield) which was used as such in the next step.

MS (ESI, m/z): 367.2 [$M+H^+$].

H.v. 6-{(S)-5-[2-(tert-butyl-dimethyl-silanyloxy)-ethyl]-2-oxo-oxazolidin-3-yl}-4H-benzo[1,4]oxazin-3-one:

Starting from intermediate H.iv (9.4 g, 25.6 mmol), and using procedure I, the title intermediate was obtained as a beige solid (2.40 g, 24% yield) after CC (DCM/MeOH/NH_4OH 1000:50:4).

MS (ESI, m/z): 393.4 [M+H$^+$].

H.vi. 6-[(S)-5-(2-hydroxy-ethyl)-2-oxo-oxazolidin-3-yl]-4H-benzo[1,4]oxazin-3-one:

Starting from intermediate H.v (2.40 g, 6.11 mmol) and using procedure J, the title intermediate was obtained as an off-white solid (0.82 g, 48% yield) after trituration with Et_2O/EA.

MS (ESI, m/z): 279.5 [M+H$^+$].

H.vii. Methanesulfonic acid 2-[(S)-2-oxo-3-(3-oxo-3,4-dihydro-2H-benzo[1,4]oxazin-6-yl)-oxazolidin-5-yl]-ethyl ester:

Starting from intermediate H.vi (0.82 g, 2.95 mmol) and using procedure H, the title compound was obtained as a beige solid (0.61 g, 58% yield).

^{1}H NMR (DMSO-d6) δ: 10.72 (s, 1H), 7.30 (d, J = 2.1 Hz, 1H), 6.93 (m, 2H), 4.76 (m, 1H), 4.52 (s, 2H), 4.34 (m, 2H), 4.11 (t, J = 8.8 Hz, 1H), 3.72 (m, 1H), 3.20 (s, 3H), 2.17 (m, 2 H).

MS (ESI, m/z): 357.3 [M+H$^+$].

Preparation I: methanesulfonic acid 2-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]oxazin-6-yl)-oxazolidin-5-yl]-ethyl ester:

I.i. 6-[(R)-4-(tert-butyl-dimethyl-silanyloxy)-2-hydroxy-butylamino]-4H-benzo[1,4]oxazin-3-one:

A solution of 6-amino-4*H*-benzo[1,4]oxazin-3-one (commercial; 6.49 g, 39.5 mmol) and *tert*-butyl-dimethyl-[(*R*)-2-oxiranyl-ethoxy]-silane (first eluting compound in step H.i; 8.0 g, 39.5 mmol) in EtOH/H_2O (9:1; 240 mL) was heated at 80°C for 2 days. The mixture was concentrated under reduced pressure. Residual starting aniline could be removed by addition of Et_2O/MeOH followed by filtration. The filtrate containing the product was concentrated under reduced pressure and the residue was purified by CC (DCM/MeOH/NH_4OH 1000:50:4) to afford the title intermediate as a brown oil (5.82 g, 40% yield).

MS (ESI, m/z): 367.3 [M+H$^+$].

I.ii. 6-{(R)-5-[2-(tert-butyl-dimethyl-silanyloxy)-ethyl]-2-oxo-oxazolidin-3-yl}-4H-benzo[1,4]oxazin-3-one:

Starting from intermediate I.i (5.8 g, 15.8 mmol) and using procedure I, the title intermediate was obtained as a beige solid (2.7 g, 43% yield) after trituration with Et_2O/EA/MeOH.

MS (ESI, m/z): 393.5 [$M+H^+$].

I.iii. 6-[(R)-5-(2-hydroxy-ethyl)-2-oxo-oxazolidin-3-yl]-4H-benzo[1,4]oxazin-3-one:

Starting from intermediate I.ii (2.70 g, 6.88 mmol) and using procedure J, the title intermediate was obtained as an off-white solid (1.25 g, 65% yield) after trituration with Et_2O/MeOH.

MS (ESI, m/z): 279.5 [$M+H^+$].

I.iv. Methanesulfonic acid 2-[(R)-2-oxo-3-(3-oxo-3,4-dihydro-2H-benzo[1,4]oxazin-6-yl)-oxazolidin-5-yl]-ethyl ester:

Starting from intermediate I.iii (2.1 g, 7.55 mmol) and using procedure H, the title compound was obtained as an off-white solid (1.16 g, 43% yield).

MS (ESI, m/z): 357.2 [$M+H^+$].

Preparation J: methanesulfonic acid 2-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-ethyl ester:

J.i. 6-[(R)-4-(tert-butyl-dimethyl-silanyloxy)-2-hydroxy-butylamino]-4H-benzo[1,4]thiazin-3-one:

A solution of 6-amino-4*H*-benzo[1,4]thiazin-3-one (10.68 g, 59.3 mmol; commercial) and *tert*-butyl-dimethyl-[(*R*)-2-oxiranyl-ethoxy]-silane (first eluting compound in step H.i.; 12.0 g, 59.3 mmol) in EtOH/H_2O (9:1; 320 mL) was heated at 80°C for 2 days. The mixture was concentrated under reduced pressure. Residual starting aniline could be removed by addition of Et_2O/MeOH followed by filtration. The filtrate containing the product was concentrated under reduced pressure to afford the title intermediate as a brown oil (18.8 g, 83% yield) which was used as such in the next step.

MS (ESI, m/z): 383.2 [$M+H^+$].

J.ii. 6-{(R)-5-[2-(tert-butyl-dimethyl-silanyloxy)-ethyl]-2-oxo-oxazolidin-3-yl}-4H-benzo[1,4]thiazin-3-one:

Starting from intermediate J.i (23.5 g, 49.1 mmol) and using procedure I, the title intermediate was obtained as a colourless solid (8.4 g, 42% yield) after CC (DCM/MeOH/NH_4OH 1000:50:4).

MS (ESI, m/z): 409.3 [$M+H^+$].

J.iii. 6-[(R)-5-(2-hydroxy-ethyl)-2-oxo-oxazolidin-3-yl]-4H-benzo[1,4]thiazin-3-one:

Starting from intermediate J.ii (8.4 g, 20.6 mmol) and using procedure J, the title intermediate was obtained as an off-white solid (4.79 g, 79% yield) after trituration with Et_2O/EA.

MS (ESI, m/z): 295.5 [$M+H^+$].

J.iv. Methanesulfonic acid 2-[(R)-2-oxo-3-(3-oxo-3,4-dihydro-2H-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-ethyl ester:

Starting from intermediate J.iii (4.7 g, 16.0 mmol) and using procedure H, the title compound was obtained as an off-white solid (5.80 g, 98% yield) after CC (DCM/MeOH/NH_4OH 1000:50:4).

MS (ESI, m/z): 373.4 [$M+H^+$].

Preparation K: 6-[(*S*)-5-(2-iodo-ethyl)-2-oxo-oxazolidin-3-yl]-4*H*-benzo[1,4]thiazin-3-one:

K.i. 6-[(S)-4-(tert-butyl-dimethyl-silanyloxy)-2-hydroxy-butylamino]-4H-benzo[1,4]thiazin-3-one:

A solution of 6-amino-4*H*-benzo[1,4]thiazin-3-one (8.0 g, 44.5 mmol; commercial) and intermediate H.iii (9.0 g, 1 eq.) in 9-1 EtOH/H_2O (250 mL) was heated at 80°C for 2 days. The mixture was concentrated under reduced pressure. Residual starting aniline could be removed by addition of Et_2O/MeOH followed by filtration. The filtrate containing the product was concentrated under reduced pressure to afford the title intermediate as a brown oil (14.58 g, 86% yield) which was used as such in the next step.

MS (ESI, m/z): 383.2 [$M+H^+$].

K.ii. 6-{(S)-5-[2-(tert-butyl-dimethyl-silanyloxy)-ethyl]-2-oxo-oxazolidin-3-yl}-4H-benzo[1,4]thiazin-3-one:

Starting from intermediate K.i (14.5 g, 37.9 mmol) and using procedure I, the title intermediate was obtained as a colourless solid (5.56 g, 36% yield) after CC (DCM/MeOH/NH_4OH 1000:50:4).

MS (ESI, m/z): 409.3 [$M+H^+$].

K.iii. 6-[(S)-5-(2-hydroxy-ethyl)-2-oxo-oxazolidin-3-yl]-4H-benzo[1,4]thiazin-3-one:

Starting from intermediate K.ii (5.50 g, 13.6 mmol) and using procedure J, the title intermediate was obtained as an off-white solid (3.08 g, 77% yield) after trituration with Et_2O/EA.

MS (ESI, m/z): 295.5 [$M+H^+$].

K.iv. Methanesulfonic acid 2-[(S)-2-oxo-3-(3-oxo-3,4-dihydro-2H-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-ethyl ester:

Starting from intermediate K.iii (3.0 g, 10.2 mmol) and using procedure H, the title intermediate was obtained as an off-white solid (3.64 g, 96% yield) after trituration with ether.

MS (ESI, m/z): 373.4 [$M+H^+$].

K.v. 6-[(S)-5-(2-iodo-ethyl)-2-oxo-oxazolidin-3-yl]-4H-benzo[1,4]thiazin-3-one:

Starting from intermediate K.iv (2.5 g, 6.7 mmol) and using procedure K, the title compound was obtained as a slightly orange solid (2.11 g, 78% yield) after trituration with Et_2O/EA.

^1H NMR (DMSO-d6) δ: 10.55 (s, 1H), 7.30 (m, 2H), 7.04 (dd, J = 8.5, 2.3 Hz, 1H), 4.68 (m, 1H), 4.10 (t, J = 8.8 Hz, 1H), 3.70 (dd, J = 8.8, 6.7 Hz, 1H), 3.41 (s, 2H), 3.29 (m, 2H), 2.23 (m, 2H).

MS (ESI, m/z): 405.1 [$M+H^+$].

Preparation L: 6-[(*R*)-5-(2-iodo-ethyl)-2-oxo-oxazolidin-3-yl]-4*H*-benzo[1,4]thiazin-3-one:

Starting from intermediate J.iv (3.5 g, 9.4 mmol) and using procedure K, the title compound was obtained as an off-white solid (3.52 g, 93% yield) after trituration with Et_2O/EA.

^1H NMR (DMSO-d6) δ: 10.55 (s, 1H), 7.30 (m, 2H), 7.04 (dd, J = 8.5, 2.3 Hz, 1H), 4.68 (m, 1H), 4.10 (t, J = 8.8 Hz, 1H), 3.70 (dd, J = 8.8, 6.7 Hz, 1H), 3.41 (s, 2H), 3.29 (m, 2H), 2.23 (m, 2H).

MS (ESI, m/z): 405.0 [$M+H^+$].

Preparation M: (*RS*)-methanesulfonic acid 2-[2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-ethyl ester:

M.i. (RS)-6-[4-(tert-butyl-dimethyl-silanyloxy)-2-hydroxy-butylamino]-4H-benzo[1,4]thiazin-3-one:

A solution of 6-amino-4*H*-benzo[1,4]thiazin-3-one (3.56 g, 19.8 mmol; commercial) and *(RS)-tert*-butyl-dimethyl-(2-oxiranyl-ethoxy)-silane (prepared according to *J. Org. Chem.* (2008), **73**, 1093; 4.0 g, 19.8 mmol) in EtOH/H_2O (9:1; 140 mL) was heated at 80°C for 2 days. The mixture was concentrated under reduced pressure and the residue was purified by CC (DCM/MeOH/NH_4OH 1000:50:4) to afford the title intermediate as a brown oil (2.20 g, 29% yield).

MS (ESI, m/z): 383.2 [$M+H^+$].

M.ii. (RS)-6-{5-[2-(tert-butyl-dimethyl-silanyloxy)-ethyl]-2-oxo-oxazolidin-3-yl}-4H-benzo[1,4]thiazin-3-one:

Starting from intermediate M.i (2.20 g, 5.75 mmol) and using procedure I, the title intermediate was obtained as a pale orange solid (1.53 g, 65% yield) after CC (DCM/MeOH/NH_4OH 1000:50:4).

MS (ESI, m/z): 409.4 [$M+H^+$].

M.iii. (RS)-6-[5-(2-hydroxy-ethyl)-2-oxo-oxazolidin-3-yl]-4H-benzo[1,4]thiazin-3-one:

Starting from intermediate M.ii (1.50 g, 3.67 mmol) and using procedure J, the title intermediate was obtained as an off-white solid (0.73 g, 68% yield) after trituration with Et_2O/EA.

MS (ESI, m/z): 295.1 [$M+H^+$].

M.iv. (RS)-methanesulfonic acid 2-[2-oxo-3-(3-oxo-3,4-dihydro-2H-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-ethyl ester:

Starting from intermediate M.iii (0.70 g, 2.38 mmol) and using procedure H, the title compound was obtained as a beige solid (0.80 g, 90% yield) after CC (DCM/MeOH/NH_4OH 1000:50:4).

MS (ESI, m/z): 373.1 [$M+H^+$].

Preparation N: 6-((*S*)-5-iodomethyl-2-oxo-oxazolidin-3-yl)-4*H*-benzo[1,4]thiazin-3-one:

N.i. 6-((S)-3-chloro-2-hydroxy-propylamino)-4H-benzo[1,4]thiazin-3-one:

A suspension of 6-amino-4*H*-benzo[1,4]thiazin-3-one (18.0 g, 100 mmol; commercial) and $Ca(OTf)_2$ (0.5 eq.) in MeCN (800 mL) was heated at 50° for 1 h. (*S*)-epichlorohydrin (18.5 g, 200 mmol) was added and the mixture was stirred at rt for 72 h and at 45°C for 24 h. The volatiles were removed under reduced pressure. After aqueous workup and extraction with EA, the title intermediate crystallised from EA to afford a beige solid (17.38 g, 64% yield).

MS (ESI, m/z): 273.2 [$M+H^+$].

N.ii. 6-((S)-5-chloromethyl-2-oxo-oxazolidin-3-yl)-4H-benzo[1,4]thiazin-3-one:

Starting from intermediate N.i (39.3 g, 144 mmol.) and using procedure I, the title intermediate was obtained as a beige solid (34.2 g, 79% yield) after CC (EA/Hept 2:1, EA).

MS (ESI, m/z): 299.1 [$M+H^+$].

N.iii. 6-((S)-5-iodomethyl-2-oxo-oxazolidin-3-yl)-4H-benzo[1,4]thiazin-3-one:

Starting from intermediate N.ii (14.0 g, 46.9 mmol) and using procedure K, the title compound was obtained as a pale beige solid (15.0 g, 82% yield).

^{1}H NMR (DMSO-d6) δ: 10.56 (s, 1H), 7.31 (m, 2H), 7.12 (dd, J = 8.5, 2.3 Hz, 1H), 4.71 (m, 1H), 4.14 (t, J = 9.1 Hz, 1H), 3.59 (m, 3H), 3.31 (s, 2H).

MS (ESI, m/z): 391.4 [M+H$^+$].

Preparation O: 6-((*R*)-5-iodomethyl-2-oxo-oxazolidin-3-yl)-4*H*-benzo[1,4]thiazin-3-one:

O.i. 6-((R)-3-chloro-2-hydroxy-propylamino)-4H-benzo[1,4]thiazin-3-one:

A solution of 6-amino-4*H*-benzo[1,4]thiazin-3-one (18.39 g, 102 mmol; commercial) and (*R*)-epichlorohydrin (8.0 mL, 1 eq.) in EtOH/H_2O (9:1; 450 mL) was heated at 80°C overnight. The mixture was concentrated under reduced pressure. Residual starting aniline could be removed by addition of Et_2O/EA followed by filtration. The filtrate containing the product was concentrated under reduced pressure to afford the title intermediate as a beige solid (22.52 g, 81% yield) which was used as such in the next step.

MS (ESI, m/z): 273.2 [M+H$^+$].

O.ii. 6-((R)-5-chloromethyl-2-oxo-oxazolidin-3-yl)-4H-benzo[1,4]thiazin-3-one:

Starting from intermediate O.i (22.0 g, 81.0 mmol) and using procedure I, the title intermediate was obtained as a yellow solid (8.79 g, 36% yield) after trituration with DCM/MeOH.

MS (ESI, m/z): 299.1 [M+H$^+$].

O.iii. 6-((R)-5-iodomethyl-2-oxo-oxazolidin-3-yl)-4H-benzo[1,4]thiazin-3-one:

Starting from intermediate O.ii (8.75 g, 29 mmol) and using procedure K, the title compound was obtained as an off-white solid (9.27 g, 81% yield) after trituration with Et_2O/EA.

^{1}H NMR (DMSO-d6) δ: 10.56 (s, 1H), 7.31 (m, 2H), 7.12 (dd, J = 8.5, 2.3 Hz, 1H), 4.71 (m, 1H), 4.14 (t, J = 9.1 Hz, 1H), 3.59 (m, 3H), 3.31 (s, 2H).

MS (ESI, m/z): 390.9 [M+H$^+$].

Preparation P: (*S*)-3-(2,3-dihydro-benzo[1,4]dioxin-6-yl)-5-iodomethyl-oxazolidin-2-one:

P.i. (S)-3-(2,3-dihydro-benzo[1,4]dioxin-6-yl)-5-hydroxymethyl-oxazolidin-2-one:

A solution of (2,3-dihydro-benzo[1,4]dioxin-6-yl)-carbamic acid benzyl ester (13.0 g, 45.6 mmol) in THF (220 mL) was cooled to –78°C before the dropwise addition of *n*-BuLi (29.5 mL of a 2.3*M* solution in Hex, 1.1 eq.). The mixture was stirred at –78°C for 1 h and then warmed to –15°C and treated dropwise with *(S)*-glycidyl butyrate (7.37 g, 1.1 eq.). The mixture was stirred at rt overnight. Cs_2CO_3 (tip of a spatula) was added and the mixture heated at 40°C until complete conversion. The mixture was diluted with EA and washed with a sat. aq. NH_4Cl and water. The org. layer was dried over $MgSO_4$ and concentrated. The residue was purified by CC (Hex/EA 2:1, 1:1) to afford the title intermediate as a grey solid (7.04 g, 62% yield).

^{1}H NMR (DMSO-d6) δ: 7.13 (d, J = 2.5 Hz, 1H), 6.96 (dd, J = 2.5, 8.9 Hz, 1H), 6.86 (d, J = 8.9 Hz, 1H), 5.16 (t, J = 5.8 Hz, 1H), 4.70-4.50 (m, 1H), 4.30-4.10 (m, 4H), 4.10-3.90 (m, 1H), 4.80-4.70 (m, 1H), 4.70-4.60 (m, 1H), 4.60-4.50 (m, 1H).

P.ii. Methanesulfonic acid (S)-3-(2,3-dihydro-benzo[1,4]dioxin-6-yl)-2-oxo-oxazolidin-5-ylmethyl ester:

Starting from intermediate P.i (7.0 g, 27.9 mmol) and using procedure H, the title intermediate was obtained as a colourless solid (9.0 g, 98% yield).

MS (ESI, m/z): 330.3 [$M+H^+$].

P.iii. (S)-3-(2,3-dihydro-benzo[1,4]dioxin-6-yl)-5-iodomethyl-oxazolidin-2-one:

Starting from intermediate P.ii (9.0 g, 27.3 mmol) and using procedure K, the title compound was obtained as an off-white solid (6.91 g, 70% yield) after trituration with Et_2O/EA.

^{1}H NMR ($CDCl_3$) δ: 7.07 (d, J = 2.6 Hz, 1H), 6.98 (dd, J = 9.1, 2.6 Hz, 1H), 6.85 (d, J = 8.9 Hz, 1H), 4.68 (m, 1H), 4.24 (s, 4H), 4.10 (t, J = 9.1 Hz, 1H), 3.72 (dd, J = 9.1, 5.9 Hz, 1H), 3.46 (m, 1H), 3.33 (m, 1H).

MS (ESI, m/z): 362.2 [$M+H^+$].

Preparation Q: methanesulfonic acid (*S*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]oxazin-6-yl)-oxazolidin-5-ylmethyl ester:

Q.i. 6-[(S)-3-(tert-butyl-dimethyl-silanyloxy)-2-hydroxy-propylamino]-4H-benzo[1,4]oxazin-3-one:

$LiClO_4$ (7.20 g, 3 eq.) was added to a solution of *tert*-butyl-dimethyl-((*S*)-1-oxiranylmethoxy)-silane (commercial; 4.25 g, 22.6 mmol) in MeCN (70 mL). 6-amino-4*H*-benzo[1,4]oxazin-3-one (commercial; 3.70 g, 1 eq.) was then added and the mixture was stirred at 50°C for 6 h. The solvent was removed under reduced pressure and the residue was purified by CC (DCM/MeOH/NH_4OH 1000/25/2) to afford the title intermediate as a pale brown foam (5.25 g, 66% yield).

MS (ESI, m/z): 353.3 [$M+H^+$].

Q.ii. 6-[(S)-5-(tert-butyl-dimethyl-silanyloxymethyl)-2-oxo-oxazolidin-3-yl]-4H-benzo[1,4]oxazin-3-one:

Starting from intermediate Q.i (10.24 g, 29 mmol) and using procedure I, the title intermediate was obtained as a pale yellow solid (6.30 g, 57% yield) after trituration with ether.

MS (ESI, m/z): 379.2 [$M+H^+$].

Q.iii. 6-((S)-5-hydroxymethyl-2-oxo-oxazolidin-3-yl)-4H-benzo[1,4]oxazin-3-one:

Starting from intermediate Q.ii (6.30 g, 16.6 mmol) and using procedure J, the title intermediate was obtained as a colourless solid (3.49 g, 79% yield) after trituration with EA.

MS (ESI, m/z): 265.5 [$M+H^+$].

Q.iv. Methanesulfonic acid (S)-2-oxo-3-(3-oxo-3,4-dihydro-2H-benzo[1,4]oxazin-6-yl)-oxazolidin-5-ylmethyl ester:

A suspension of intermediate Q.iii (4.93 g, 18.7 mmol) in anhydrous DCM (110 mL) was treated with DIPEA (12.0 mL, 3.75 eq.) and the mixture was cooled to 0°C. Ms_2O (4.88 g, 1.5 eq.) was added portionwise. The resulting mixture was stirred at 0°C for 15 min. Water was added and stirring was continued for 15 min at rt. The precipitated product was filtered, washed with water and DCM. The thus obtained solid was triturated with

DCM/MeOH/NH_4OH (1000:25:2) to give the title intermediate as a colourless solid (3.785 g, 60% yield).

^1H NMR (DMSO-d6) δ: 10.72 (s, 1H), 7.29 (dd, J = 2.1, 0.6 Hz, 1H), 6.94 (m, 2H), 4.95 (m, 1H), 4.52 (s, 2H), 4.49 (m, 2H), 4.11 (t, J = 9.1 Hz, 1H), 3.73 (m, 2H), 3.23 (s, 3H).

MS (ESI, m/z): 343.3 [$M+H^+$].

Preparation R: (*S*)-3-(3-fluoro-4-methyl-phenyl)-5-iodomethyl-oxazolidin-2-one:

R.i. (S)-3-(3-fluoro-4-methyl-phenyl)-5-hydroxymethyl-oxazolidin-2-one:

A mixture of 3-fluoro-4-methyl-aniline (commercial; 1.25 g, 10 mmol), sat. aq. $NaHCO_3$ (10 mL) and acetone (10 mL) was treated dropwise with benzyl chloroformate (1.70 g, 1.41 mL, 1 eq.). After CO_2 evolution ceased, the mixture was partitioned between EA and sat. aq. $NaHCO_3$, the org. layer was dried over $MgSO_4$ and concentrated under reduced pressure. The resulting benzyl carbamate was dissolved in THF (50 mL) and cooled under argon to -78° C. *n*-BuLi (2.5*M* in Hex, 6.45 mL, 1.1 eq.) was added dropwise, and the resulting solution was stirred for 1 h at that temperature. The reaction was then allowed to warm to -15°C at which (*S*)-glycidyl butyrate (1.69 mL, 1.1 eq.) was added dropwise. The mixture was stirred at rt overnight. A tip of a spatula of Cs_2CO_3 was added, and the mixture was stirred at rt for 3 h. NH_4Cl and EA were added and the phases were separated. The aq. phase was extracted once more with EA and the combined org. extracts were washed several times with sat. aq. NH_4Cl, then with brine, dried over Na_2SO_4 and concentrated. The orange solid obtained was triturated with EA to afford the title intermediate as a pale yellow solid (1.18 g, 53% yield).

MS (ESI, m/z): 226.3 [$M+H^+$].

R.ii. Methanesulfonic acid (S)-3-(3-fluoro-4-methyl-phenyl)-2-oxo-oxazolidin-5-ylmethyl ester:

Starting from intermediate R.i (4.70 g, 20.9 mmol) and following procedure H the title intermediate was obtained as a yellow solid (6.37 g, 100% yield) after trituration in ether.

^1H NMR ($CDCl_3$) δ: 7.36 (dd, J = 11.7, 2.3 Hz, 1H), 7.13 (m, 2H), 4.91 (m, 1H), 4.46 (m, 2H), 4.13 (t, J = 9.1 Hz, 1H), 3.92 (dd, J = 9.1, 6.2 Hz, 1H), 3.10 (s, 3H), 2.25 (d, J = 1.8 Hz, 3H).

MS (ESI, m/z): 330.3 [M+H$^+$].

R.iii. (S)-3-(3-fluoro-4-methyl-phenyl)-5-iodomethyl-oxazolidin-2-one:

Starting from intermediate R.ii (6.30 g, 20.8 mmol) and using procedure K, the title compound was obtained as a slightly pink solid (6.3 g, 91% yield) after trituration with Et_2O/EA.

^{1}H NMR ($CDCl_3$) δ: 7.36 (dd, J = 12.0, 2.1 Hz, 1H), 7.16 (m, 2H), 4.73 (m, 1H), 4.14 (m, 1H), 3.76 (dd, J = 9.4, 6.2 Hz, 1H), 3.48 (m, 1H), 3.35 (dd, J = 10.3, 8.2 Hz, 1H), 2.25 (d, J = 1.8 Hz, 3H).

MS (ESI, m/z): 335.8 [M+ H$^+$].

Preparation S: (*RS*)-methanesulfonic acid 2-[3-(3-fluoro-4-methyl-phenyl)-2-oxo-oxazolidin-5-yl]-ethyl ester:

S.i. (RS)-4-(tert-butyl-dimethyl-silanyloxy)-1-(3-fluoro-4-methyl-phenylamino)-butan-2-ol:

To a solution of *(RS)-tert*-butyl-dimethyl-(2-oxiranyl-ethoxy)-silane (4.4 g, 200 mmol; prepared as in *J. Org. Chem.* (2008), **73**, 1093) in MeCN (60 mL) was added $LiClO_4$ (6.31 g, 3 eq.). 3-fluoro-4-methylaniline (commercial; 2.28 g, 0.92 eq.) was added and the mixture was stirred at 50°C for 5 h. The solvent was removed under reduced pressure and the residue was purified by CC (DCM/MeOH/NH_4OH 1000:25:2) to afford the title intermediate as a brown oil (5.56 g, 86% yield).

MS (ESI, m/z): 328.4 [M+H$^+$].

S.ii. (RS)-5-[2-(tert-butyl-dimethyl-silanyloxy)-ethyl]-3-(3-fluoro-4-methyl-phenyl)-oxazolidin-2-one:

Starting from intermediate S.i (2.50 g, 7.63 mmol) and using procedure I, the title intermediate was obtained as an off-white solid (1.22 g, 45% yield) after trituration with ether/EA.

MS (ESI, m/z): 354.2 [M+H$^+$].

S.iii. (RS)-3-(3-fluoro-4-methyl-phenyl)-5-(2-hydroxy-ethyl)-oxazolidin-2-one:

Starting from intermediate S.ii (1.20 g, 3.40 mmol) and using procedure J, the title intermediate was obtained as a colourless solid (0.478 g, 59% yield) after trituration with Et_2O/EA/DCM.

MS (ESI, m/z): 240.1 [M+H$^+$].

S.iv. (RS)-methanesulfonic acid 2-[3-(3-fluoro-4-methyl-phenyl)-2-oxo-oxazolidin-5-yl]-ethyl ester:

Starting from intermediate S.iii (470 mg, 2.0 mmol) and using procedure H, the title compound was obtained as an off-white solid (0.60 g, 96% yield) after CC (DCM/MeOH/NH_4OH 1000:50:4).
MS (ESI, m/z): 318.2 [M+H$^+$].

Preparation T: 3-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]oxazin-6-yl)-oxazolidin-5-yl]-propionaldehyde:

T.i. 6-[(R)-5-(tert-butyl-dimethyl-silanyloxy)-2-hydroxy-pentylamino]-4H-benzo[1,4]oxazin-3-one:

A mixture of (*R*)-*tert*-butyl-dimethyl-(3-oxiranyl-propoxy)-silane (13 g, 60 mmol; prepared according to *Org. Lett.* (2005), **7**, 3997) and 6-amino-4*H*-benzo[1,4]oxazin-3-one (9.9 g) in EtOH/H_2O (9:1, 325 mL) was heated at reflux overnight. The volatiles were removed under reduced pressure and the residue purified by CC (Hept/EA 1:1) to give the desired intermediate as a brown oil (8.9 g , 39% yield).
MS (ESI, m/z): 318.2 [M+H$^+$].

T.ii. 6-{(R)-5-[3-(tert-butyl-dimethyl-silanyloxy)-propyl]-2-oxo-oxazolidin-3-yl}-4H-benzo[1,4]oxazin-3-one:

Starting from intermediate T.i (8.8 g, 23 mmol) and using procedure I, the title intermediate was obtained as an orange solid (9.8 g, quant.) after crystallisation from Hept/EA.
MS (ESI, m/z): 407.6 [M+H$^+$].

T.iii. 6-[(R)-5-(3-hydroxy-propyl)-2-oxo-oxazolidin-3-yl]-4H-benzo[1,4]thiazin-3-one:

Starting from intermediate T.ii (9.8 g, 24 mmol) and using procedure J, the title intermediate was obtained as a yellowish solid (5.0 g, 71% yield) after CC (EA, EA/MeOH 9:1) followed by crystallisation from ether/EA.
MS (ESI, m/z): 293.3 [M+H$^+$].

T.iv. 3-[(R)-2-oxo-3-(3-oxo-3,4-dihydro-2H-benzo[1,4]oxazin-6-yl)-oxazolidin-5-yl]-propionaldehyde:

To a solution of intermediate T.iii (292 mg, 1 mmol) and DIPEA (0.5 mL, 3 eq.) in DCM (5 mL) at rt was added dropwise a solution of SO_3.pyridine complex (318 mg, 2 eq.) in DMSO (1 mL) over 10 min. The mixture was stirred at rt for 2 h, diluted with DCM and washed with water. The org. phase was washed several times with water, dried over $MgSO_4$ and concentrated to give the desired aldehyde as a beige solid (260 mg, 90% yield).

^{1}H NMR (DMSO-d6) δ: 10.71 (s, 1H) 9.68 (d, J = 0.9 Hz, 1H), 7.31 (s, 1H), 6.92 (m, 2H), 4.64 (m, 1H), 4.52 (d, J = 1.2 Hz, 2H), 4.07 (m, 1H), 3.66 (m, 1H), 2.60 (m, 2H), 1.98 (m, 2H).

Preparation U: 3-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-propionaldehyde:

U.i. 6-[(R)-5-(tert-butyl-dimethyl-silanyloxy)-2-hydroxy-pentylamino]-4H-benzo[1,4]thiazin-3-one:

A mixture of (R)-*tert*-butyl-dimethyl-(3-oxiranyl-propoxy)-silane (13 g, 60 mmol; prepared as in *Org. Lett.* (2005), **7**, 3997) and 6-amino-4*H*-benzo[1,4]thiazin-3-one (10.8 g) in EtOH/H_2O (9:1, 325 mL) was heated at reflux overnight. The volatiles were removed under reduced pressure and the residue purified by CC (Hept/EA 1:1) to give the desired intermediate as a brown oil (6.8 g, 28% yield).

MS (ESI, m/z): 397.1 [M+H$^+$].

U.ii. 6-{(R)-5-[3-(tert-butyl-dimethyl-silanyloxy)-propyl]-2-oxo-oxazolidin-3-yl}-4H-benzo[1,4]thiazin-3-one:

Starting from intermediate U.i (6.7 g, 17 mmol) and using procedure I, the title intermediate was obtained as an orange solid (7.8 g, quant.) after crystallisation from Hept/EA.

MS (ESI, m/z): 423.4 [M+H$^+$].

U.iii. 6-[(R)-5-(3-hydroxy-propyl)-2-oxo-oxazolidin-3-yl]-4H-benzo[1,4]thiazin-3-one:

Starting from intermediate U.ii (7.1 g, 16.8 mmol) and using procedure J, the title intermediate was obtained as a yellowish solid (3.1 g, 60% yield) after CC (EA. EA/MeOH 9:1).

MS (ESI, m/z): 309.1 [$M+H^+$].

U.iv. 3-[(R)-2-oxo-3-(3-oxo-3,4-dihydro-2H-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-propionaldehyde:

To a solution of intermediate U.iii (500 mg, 1.6 mmol) and DIPEA (0.83 mL, 3 eq.) in DCM (7 mL) at rt was added dropwise a solution of SO_3.pyridine complex (516 mg, 2 eq.) in DMSO (1.7 mL) over 10 min. The mixture was stirred at rt for 2 h, diluted with DCM and washed with water. The org. phase was washed several times with water, dried over $MgSO_4$ and concentrated to give the desired aldehyde after trituration with ether/EA as a beige solid (440 mg, 88 % yield).

MS (ESI, m/z): 307.5 [$M+H^+$].

Preparation V: (*R*)-4-aminomethyl-4,5-dihydro-pyrrolo[3,2,1-de][1,5]naphthyridin-7-one:

V.i. 2-(6-methoxy-[1,5]naphthyridin-4-yl)-propane-1,3-diol:

A mixture of 2-methoxy-8-methyl-[1,5]naphthyridine (2.90 g, 16.6 mmol; prepared according to WO 00/21948) and formaldehyde (37% in water, 7.8 mL) was heated at 100°C for 3 days and at 110°C for 2 days. After cooling to rt, the mixture was concentrated, taken up in MeOH and concentrated again. The residue was purified by CC (DCM/MeOH/NH_4OH 1000:100:8) to afford the title intermediate as a pale beige solid (2.78 g, 71% yield).

^1H NMR (DMSO-d_6) δ: 8.67 (d, J = 4.4 Hz, 1H), 8.22 (d, J = 9.1 Hz, 1H), 7.51 (d, J = 4.4 Hz, 1H), 7.22 (d, J = 9.1 Hz, 1H), 4.56 (m, 2H), 4.00 (s, 3H), 3.84 (m, 3H).

V.ii. Acetic acid (S)-3-hydroxy-2-(6-methoxy-[1,5]naphthyridin-4-yl)-propyl ester:

A 0.5M solution of intermediate V.i (5.45 g, 23.3 mmol) in vinyl acetate (60 mL) was treated with powdered 3Å molecular sieves (350 mg) and stirred at rt for 15 min under a nitrogen atmosphere. Lipase from *Candida antarctica* (2.69 g, bound to acrylic resin) was

added and stirring was continued for 4 h at rt. The mixture was filtered; the filter cake was washed with EA and the filtrate was concentrated. The residue was purified by CC (DCM/MeOH/NH_4OH 1000:25:2) to afford the title intermediate as a colourless oil (2.70 g, 42% yield). The corresponding diacetate (3.81 g, 51% yield) was then afterwards cleaved back to the diol and used again as substrate.

^1H NMR ($CDCl_3$) δ: 8.72 (d, J = 4.4 Hz, 1H), 8.23 (d, J = 9.1 Hz, 1H), 7.46 (d, J = 4.4 Hz, 1H), 7.14 (d, J = 9.1 Hz, 1H), 4.65 (m, 2H), 4.22 (m, 1H), 4.07 (m, 4H), 2.96 (m, 1H), 2.04 (s, 1H).

MS (ESI, m/z): 277.3 [$M+H^+$].

ALTERNATIVE α:

V.iii. Acetic acid (S)-7-oxo-4,5-dihydro-7H-pyrrolo[3,2,1-de][1,5]naphthyridin-4-ylmethyl ester:

TEA (2.1 mL, 2 eq.) and MsCl (0.70 mL, 1.2 eq.) were added at 0°C to a solution of intermediate V.ii (2.05 g, 7.41 mmol) in DCM (40 mL). The reaction was stirred for 20 min at this temperature. DCE (40 mL) was added and the solution was slowly warmed to 60°C and let stir at this temperature for 4 h. After cooling to rt, water was added and the two layers were decanted and the aq. layer was extracted once more with DCM. The combined org. layers were concentrated to dryness. The residue was triturated with TBME to afford the title intermediate as a grey solid (1.40 g, 77% yield).

^1H NMR ($CDCl_3$) δ: 8.52 (d, J = 4.7 Hz, 1H), 7.93 (d, J = 9.7 Hz, 1H), 7.34 (d, J = 4.7 Hz, 1H), 6.89 (d, J = 9.7 Hz, 1H), 4.56 (dd, J = 12.9, 9.4 Hz, 1H), 4.36 (m, 2H), 4.27 (dd, J = 13.2, 5.0 Hz, 1H), 4.10 (m, 1H), 2.06 (s, 3H).

MS (ESI, m/z): 245.2 [$M+H^+$].

V.iv. (S)-4-hydroxymethyl-4,5-dihydro-pyrrolo[3,2,1-de][1,5]naphthyridin-7-one:

K_2CO_3 (0.40 g, 0.5 eq.) was added to a solution of intermediate V.iii (1.40 g, 5.73 mmol) cooled to 0°C and the resulting mixture was vigorously stirred at 0°C for 30 min. The mixture was concentrated and the residue was purified by CC (DCM/MeOH/NH_4OH 1000:100:8). The product was triturated with EA/TBME to afford the title intermediate as a grey solid (0.98 g, 85% yield).

MS (ESI, m/z): 203.0 [$M+H^+$].

V.v. Methanesulfonic acid (S)-7-oxo-4,5-dihydro-7H-pyrrolo[3,2,1-de][1,5]naphthyridin-4-ylmethyl ester:

A solution of intermediate V.iv (0.33 g, 1.63 mmol) and TEA (0.57 mL, 2.5 eq.) in anhydrous DCM (15 mL) was cooled to 0°C and treated dropwise with MsCl (0.19 mL, 1.5 eq.). The resulting mixture was stirred at 0°C for 1 h. Water and DCM were added and the phases separated. The org. layer was dried over $MgSO_4$ and concentrated under reduced pressure to afford the title intermediate as a colourless gum (0.40 g, 88% yield) which was used in the next step without further purification.

MS (ESI, m/z): 281.3 [$M+H^+$].

V.vi. ***(R)-4-aminomethyl-4,5-dihydro-pyrrolo[3,2,1-de][1,5]naphthyridin-7-one****:*

A solution of intermediate V.v (0.35 g, 1.24 mmol) in DMF (12 mL) was treated with sodium azide (0.65 g, 8 eq.) and stirred at 50°C for 1.5 h. After cooling to rt, water was added and the mixture was extracted with DCM. The org. layer was dried over $MgSO_4$ and concentrated under reduced pressure to give a yellow oil (crude azide) which was taken up in THF (1.5 mL). PPh_3 (390 mg) and water (0.13 mL) were added and the mixture was heated at 50°C for 3 h. The reaction mixture was concentrated to dryness and the residue was purified by CC (DCM/MeOH/NH_4OH 1000:100:8) to afford the title intermediate as a yellow oil (30 mg, 12% yield).

MS (ESI, m/z): 202.2 [$M+H^+$].

ALTERNATIVE β:

V.ii. Acetic acid (R)-3-(tert-butyl-dimethyl-silanyloxy)-2-(6-methoxy-[1,5]naphthyridin-4-yl)-propyl ester:

To a solution of intermediate V.ii (1.66 g) in DCM (50 mL) were added imidazole (1 eq.) and TBDMSCl (1 eq.). The mixture was stirred at rt for 3 h. Another eq. of each reagent was added and the reaction was complete after 15 min. Water was added and the mixture was extracted with DCM. The org. layer was dried over $MgSO_4$ and concentrated to afford the title intermediate as a colourless oil (2.36 g, 100% yield).

MS (ESI, m/z): 391.5 [$M+H^+$].

V.iii. (R)-3-(tert-butyl-dimethyl-silanyloxy)-2-(6-methoxy-[1,5]naphthyridin-4-yl)-propan-1-ol:

A suspension of intermediate V.vii (2.36 g) and K_2CO_3 (3.34 g) in MeOH (50 mL) was vigorously stirred at rt for 30 min. Water and DCM were added. The two layers were decanted and the aq. layer was extracted once more with DCM. The combined org. layers were dried over $MgSO_4$, filtered and concentrated to dryness to afford the title intermediate as a colourless oil (2.1 g, 100% yield).

MS (ESI, m/z): 349.1 [$M+H^+$].

V.ix. 8-[(R)-2-azido-1-(tert-butyl-dimethyl-silanyloxymethyl)-ethyl]-2-methoxy-[1,5]naphthyridine:

Starting from intermediate V.viii (2.09 g) and following procedure N, the title intermediate was isolated as a colourless oil (1.79 g, 80% yield).

MS (ESI, m/z): 374.1 [$M+H^+$].

V.x. [(R)-3-(tert-butyl-dimethyl-silanyloxy)-2-(6-methoxy-[1,5]naphthyridin-4-yl)-propyl]-carbamic acid tert-butyl ester:

Starting from intermediate V.ix (1.79 g) and using procedure F and procedure G, the title intermediate was obtained as a dark oil (2.14 g, 100% yield).

MS (ESI, m/z): 448.2 [$M+H^+$].

V.xi. [(R)-3-hydroxy-2-(6-methoxy-[1,5]naphthyridin-4-yl)-propyl]-carbamic acid tert-butyl ester:

Starting from intermediate V.x (2.14 g) and using procedure J, the title intermediate was obtained as a colourless solid (1.14 g, 72% yield).

MS (ESI, m/z): 334.2 [$M+H^+$].

V.xii. ((R)-7-oxo-4,5-dihydro-7H-pyrrolo[3,2,1-de][1,5]naphthyridin-4-ylmethyl)-carbamic acid tert-butyl ester:

Starting from intermediate V.xi (1.14 g) and using procedure H followed by heating at 60°C for 2 h in DCE, the title intermediate was obtained as a colourless solid (0.91 g, 88% yield).

MS (ESI, m/z): 302.2 [$M+H^+$].

V.xiii. (R)-4-aminomethyl-4,5-dihydro-pyrrolo[3,2,1-de][1,5]naphthyridin-7-one:

Starting from intermediate V.xi (0.91 g) and using procedure B, the title intermediate was obtained as a pale yellow solid (0.496 g, 82% yield).
MS (ESI, m/z): 202.1 [$M+H^+$].

Preparation W: *(RS)*-methanesulfonic acid 7-oxo-4,5-dihydro-7*H*-pyrrolo[3,2,1-*de*][1,5]naphthyridin-4-ylmethyl ester:

W.i. 3-(tert-butyl-dimethyl-silanyloxy)-2-(6-methoxy-[1,5]naphthyridin-4-yl)-propan-1-ol:

A solution of the intermediate V.i (1.10 g) in THF (55 mL) was treated at 0°C with imidazole (351 mg) and a solution of TBDMSCl (707 mg) in THF (10 mL). After stirring at rt for 2 days, the reaction mixture was diluted with EA and extracted with water and brine. The org phase was dried over $MgSO_4$ and purified by CC (Hept/EA 1.1 to 0:1), affording a colourless oil (570 mg; 35% yield).
MS (ESI, m/z): 349.2 [$M+H^+$].

W.ii. Methanesulfonic acid 3-(tert-butyl-dimethyl-silanyloxy)-2-(6-methoxy-[1,5]naphthyridin-4-yl)-propyl ester:

Starting from intermediate W.i (1.4 g) and MsCl (0.374 mL) and using procedure H, the title compound was obtained as a yellow oil (1.4 g, 81% yield).
^1H NMR ($CDCl_3$) δ: 8.72 (d, J = 4.4 Hz, 1H) 8.23 (d, J = 9.1 Hz, 1H), 7.50 (d, J = 4.7 Hz, 1H), 7.15 (d, J = 9.1 Hz, 1H), 4.78 (m, 2H), 4.44 (m, 1H), 4.05 (m, 5H), 2.90 (s, 3H), 0.87 (m, 12H), -0.02 (d, J = 8.5 Hz, 6H).

W.iii. 4-(tert-butyl-dimethyl-silanyloxymethyl)-4,5-dihydro-pyrrolo[3,2,1-de][1,5]naphthyridin-7-one:

A solution of intermediate W.ii (1.4 g) in DCE (20 mL) was heated at 85°C overnight. The reaction mixture was evaporated under reduced pressure. The residue was purified by CC (EA to EA/MeOH 9:1), affording a colourless oil (340 mg; 33% yield).
MS (ESI, m/z): 317.1 [$M+H^+$].

W.iv. 4-hydroxymethyl-4,5-dihydro-pyrrolo[3,2,1-de][1,5]naphthyridin-7-one:

Starting from intermediate W.iii (330 mg) and using procedure J, the title compound was obtained as a colourless solid (90 mg, 43% yield).
MS (ESI, m/z): 203.2 [$M+H^+$].

W.v. ***(RS)-m****ethanesulfonic acid 7-oxo-4,5-dihydro-7H-pyrrolo[3,2,1-de][1,5]naphthyridin-4-ylmethyl ester:*

Starting from intermediate W.iv (90 mg) and using procedure H, the title compound was obtained as a yellow solid (90 mg, 72% yield).
Analytical data identical to the *(S)*-enantiomer (intermediate V.v).

Preparation X: *rac*-1-amino-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one:

X.i. 2-azido-2-(2-methoxy-quinolin-8-yl)-ethanol:

A solution of 2-methoxy-8-(2-oxiranyl)-quinoline (900 mg; prepared according to WO 2006/046552) in dioxane/water (5:1; 60 mL) was reacted with NaN_3 at 90°C for 5 h. The solvents were removed under reduced pressure and the residue was purified by CC (Hex/EA 2:1 to 1:1), affording a yellow oil (480 mg; 44% yield).
MS (ESI, m/z): 245.0 [$M+H^+$].

X.ii. rac-2-amino-2-(2-methoxy-quinolin-8-yl)-ethanol:

Starting from intermediate X.i (470 mg) and using procedure F, the title compound was obtained as a yellow oil (450 mg; 100% yield).
MS (ESI, m/z): 219.1 [$M+H^+$].

X.iii. rac-[2-hydroxy-1-(2-methoxy-quinolin-8-yl)-ethyl]-carbamic acid tert-butyl ester:

Starting from intermediate X.ii (430 mg) and using procedure G, the title compound was obtained as a yellow oil (720 mg; quant.)
MS (ESI, m/z): 319.1 [$M+H^+$].

X.iv. rac-methanesulfonic acid 2-tert-butoxycarbonylamino-2-(2-methoxy-quinolin-8-yl)-ethyl ester:

Starting from intermediate X.iii (700 mg) and using procedure H, the title compound was obtained as a yellow oil (900 mg, quant.).

MS (ESI, m/z): 397.0 [$M+H^+$].

X.v. rac-(4-oxo-1,2-dihydro-4H-pyrrolo[3,2,1-ij]quinolin-1-yl)-carbamic acid tert-butyl ester:

A solution of intermediate X.iv (850 mg) in DCE (10 mL) was heated at 85°C overnight. The solvent was evaporated under reduced pressure, affording a brown oil (780 mg; quant.) which was used without further purification in the next step.

MS (ESI, m/z): 287.1 [$M+H^+$].

X.vi. rac-1-amino-1,2-dihydro-pyrrolo[3,2,1-ij]quinolin-4-one:

Starting from intermediate X.v (572 mg) and using procedure B, the title compound was obtained as a beige solid (230 mg; 62% yield).

MS (ESI, m/z): 187.0 [$M+H^+$].

Preparation Y: *(S)*-4-amino-4,5-dihydro-pyrrolo[3,2,1-*de*][1,5]naphthyridin-7-one:

Y.i. (S)-2-azido-2-(6-methoxy-[1,5]naphthyridin-4-yl)-ethanol:

This compound was prepared in analogy to Preparation X, step X.i, but starting from 2-methoxy-8-[*(2R)*-2-oxiranyl]-1,5-naphthyridine (prepared according to WO 02/08224). The compound was purified by CC (Hept/EA 1:1 to 2:1 to 0:1), affording a yellow solid (3.9 g (87%; contaminated by its region isomer).

MS (ESI, m/z): 246.3 [$M+H^+$].

Y.ii. (S)-2-amino-2-(6-methoxy-[1,5]naphthyridin-4-yl)-ethanol:

Starting from intermediate Y.i (3.90 g) and using procedure F, the title compound was obtained as a yellow oil (2.80 g, 80% yield).

MS (ESI, m/z): 220.0 [$M+H^+$].

Y.iii. (S)-[2-hydroxy-1-(6-methoxy-[1,5]naphthyridin-4-yl)-ethyl]-carbamic acid tert-butyl ester:

Starting from intermediate Y.ii (2.90 g) and using procedure G, the title compound was obtained as a colourless foam (1.40 g, 33% yield).

MS (ESI, m/z): 320.1 [$M+H^+$].

Y.iv. ((S)-7-oxo-4,5-dihydro-7H-pyrrolo[3,2,1-de][1,5]naphthyridin-4-yl)-carbamic acid tert-butyl ester:

Starting from the intermediate Y.iii (1.40 g) and using procedure H followed by heating at 80°C for 7 h, the title compound was obtained as a beige solid (570 mg, 45% yield).

MS (ESI, m/z): 288.4 [$M+H^+$].

Y.v. ***(S)-4-amino-4,5-dihydro-pyrrolo[3,2,1-de][1,5]naphthyridin-7-one****:*

Starting from intermediate Y.iv (570 mg) and using procedure B, the title compound was obtained as a beige solid (470 mg, quant.).

^{1}H NMR ($CDCl_3$) δ: 8.43 (d, J = 4.7 Hz, 1H), 7.79 (d, J = 9.7 Hz, 1H), 7.43 (dd, J = 4.7, 0.9 Hz, 1H), 6.74 (d, J = 10.0 Hz, 1H), 4.91 (m, 1H), 4.52 (dd, J = 13.2, 8.5 Hz, 1H), 4.02 (dd, J = 13.5, 4.7 Hz, 1H).

Preparation Z: *(S)*-6-amino-5,6-dihydro-pyrrolo[1,2,3-*de*]quinoxalin-3-one:

Z.i. 2-methoxy-8-vinyl-quinoxaline:

A suspension of methyltriphenylphosphonium bromide (22.78 g) in THF (200 mL) was treated with tBuOK (7.15 g) and further stirred at rt for 1 h. The mixture was cooled to 0°C and treated with a solution of 3-methoxy-5-quinoxalinecarboxaldehyde (10.0 g; prepared according to WO 2006/021448) in THF (100 mL). The mixture was further stirred at rt for 3 h, diluted with ether and washed with water and an aq. sat. NH_4Cl solution. The org. phase was dried over $MgSO_4$ and concentrated under reduced pressure. The residue was crystallized from ether and the crystals were filtered off. The mother liquor was purified by CC (Hex/EA 1:1), affording a light orange solid (8.70 g; 88% yield).

^{1}H NMR ($CDCl_3$) δ: 8.48 (s, 1H), 7.92 (m, 2H), 7.78 (dd, J = 17.9, 11.1 Hz, 1H), 7.54 (m, 1H), 6.03 (dd, J = 17.9, 1.5 Hz, 1H), 5.48 (dd, J = 11.4, 1.5 Hz, 1H), 4.12 (s, 3H).

Z.ii. (R)-1-(3-methoxy-quinoxalin-5-yl)-ethane-1,2-diol:

Starting from intermediate Z.i (8.70 g) and using procedure L with AD-mix β, the title compound was obtained as a beige solid (7.60 g, 74% yield) after crystallization from ether/EA.

MS (ESI, m/z): 221.1 [$M+H^+$].

Z.iii. (R)-2-(tert-butyl-dimethyl-silanyloxy)-1-(3-methoxy-quinoxalin-5-yl)-ethanol:

Starting from intermediate Z.ii (7.60 g) and using procedure M, the title compound was obtained as a yellow oil (8.80 g, 76% yield).

MS (ESI, m/z): 335.0 [$M+H^+$].

Z.iv. (S)-2-amino-2-(3-methoxy-quinoxalin-5-yl)-ethanol:

Starting from intermediate Z.iii (8.80 g) and using procedure N, the desired azide (20 g) was obtained, which was used without further purification in the next reaction. A solution of this azide (20 g, contaminated with PPh_3O) in THF (228 mL) was then treated with PPh_3 (7.50 g) and water (4.68 mL). The reaction mixture was further stirred at 50°C for 2 days, and then extracted with 3*M* HCl. The aq. phase was basified with. aq. NaOH solution and extracted with EA. The org layer was dried over $MgSO_4$ and evaporated under reduced pressure, affording a yellow oil (6.10 g; title compound contaminated with traces of PPh_3O).

MS (ESI, m/z): 220.0 [$M+H^+$].

Z.v. [(S)-2-hydroxy-1-(3-methoxy-quinoxalin-5-yl)-ethyl]-carbamic acid tert-butyl ester:

Starting from intermediate Z.iv (6.00 g) and using procedure G, the title compound was obtained as a yellowish foam (5.90 g, 67% yield).

MS (ESI, m/z): 320.1 [$M+H^+$].

Z.vi. ((S)-3-oxo-5,6-dihydro-3H-pyrrolo[1,2,3-de]quinoxalin-6-yl)-carbamic acid tert-butyl ester:

A solution of intermediate Z.v (5.80 g) and TEA (3.0 mL) in DCE (45 mL) was treated dropwise at 0°C with MsCl (1.55 mL). The reaction mixture was further refluxed overnight. The reaction mixture was diluted with DCM, washed with water and brine, dried over $MgSO_4$ and evaporated under reduced pressure affording, after crystallization

from ether/EA, a beige solid (3.50 g; 67% yield) consisting of an inseparable 2:1 mixture of the desired product and 4-(3-methoxy-quinoxalin-5-yl)-oxazolidin-2-one which was used as such in the next step.

MS (ESI, m/z): 288.0 and 246.0 [$M+H^+$].

Z.vii. (S)-6-amino-5,6-dihydro-pyrrolo[1,2,3-de]quinoxalin-3-one:

Starting from intermediate Z.vi (3.50 g) and using procedure B, the title compound was obtained as a beige solid (780 mg, 34% yield). The side product from cyclisation was removed by acid/base extraction.

MS (ESI, m/z): 188.1 [$M+H^+$].

Preparation AA: *(R)*-6-amino-5,6-dihydro-pyrrolo[1,2,3-*de*]quinoxalin-3-one:

The title compound was prepared in analogy to Preparation Z, using AD-mix α in the second step.

The analytical data are identical to those of the compound of Preparation Z.

Preparation AB: *rac*-methanesulfonic acid 4-oxo-1,2-dihydro-4*H*-pyrrolo[3,2,1-*ij*]quinolin-1-ylmethyl ester:

AB.i. 2-(2-methoxy-quinolin-8-yl)-malonic acid dimethyl ester:

A mixture of 8-bromo-2-methoxy-quinoline (4.76 g; prepared according to WO 2008/125594) and dimethylmalonate (36 mL) in was degassed by bubbling N_2 through for 10 min and treated with CuBr (3.47 g) and NaOMe (2.6 g). The mixture was heated at 100°C for 20 h and then partitioned between EA and water. The org. phase was washed with brine, dried over $MgSO_4$ and the excess dimethylmalonate was removed by distillation. The residue was purified by CC (Hept/EA 4:1, 2:1), affording an oil (2.80 g; 48% yield).

^{1}H NMR ($CDCl_3$) δ: 7.98 (d, J = 8.8 Hz, 1H), 7.71 (dd, J = 8.2, 1.5 Hz, 1H), 7.66 (m, 1H), 7.39 (m, 1H), 6.92 (d, J = 8.8 Hz, 1H), 6.00 (s, 1H), 4.03 (s, 3H), 3.76 (s, 3H).

AB.ii. 2-(2-methoxy-quinolin-8-yl)-propane-1,3-diol:

Starting from intermediate AB.i (5.80 g) and using procedure A, the title compound was obtained as a light yellow oil (1.06 g, 23% yield).

MS (ESI, m/z): 234.2 [M+H$^+$].

AB.iii. rac-methanesulfonic acid 4-oxo-1,2-dihydro-4H-pyrrolo[3,2,1-ij]quinolin-1-ylmethyl ester:

Starting from intermediate AB.ii (840 mg) and using procedure H, but using 3 eq. of methansulfonyl anhydride instead of MsCl and 4 eq. of Pyr as a base, the intermediate dimesylate was further stirred at 70°C for 1 h. The reaction mixture was diluted with 2*N* HCl and extracted with DCM. The org. phase was dried over $MgSO_4$ and evaporated under reduced pressure affording, after purification by CC (EE/MeOH 9:1), a beige foam (1.10 g; 76% yield).

MS (ESI, m/z): 280.4 [M+H$^+$].

Preparation AC: *rac*-6-aminomethyl-5,6-dihydro-pyrrolo[1,2,3-de]quinoxalin-3-one:

AC.i. (3-methoxy-quinoxalin-5-yl)-acetic acid methyl ester:

TBDMSCl (2.4 mL) was added dropwise to a solution of 3-methoxy-5-quinoxalineacetonitrile (1.08 g, prepared according to WO 2008/126024) in dry MeOH (20 mL). The solution was stirred at reflux overnight. TBDMSCl (2.4 mL) was added and the reaction mixture was further stirred for 8 h. TBDMSCl (2.4 mL) was added and the reaction mixture was further stirred at reflux overnight. The mixture was concentrated under reduced pressure and partitioned between EA and water. The org. layer was washed with 2*M* NaOH, water and brine, dried over $MgSO_4$, concentrated under reduced pressure and purified by CC (Hept/EtOAc 1:1), affording a yellow oil (520 mg; 41% yield).
MS (ESI, m/z): 233.3 [M+H$^+$].

AC.ii. rac-3-(1,3-dioxo-1,3-dihydro-isoindol-2-yl)-2-(3-methoxy-quinoxalin-5-yl)-propionic acid methyl ester:

A solution of intermediate AC.i (2.03 g) in THF (19 mL) was added dropwise at -78°C to a solution of LiHMDS (1*M* in THF; 10.5 mL) in THF (10 mL). The solution was further stirred at -78°C stirred for 1 h and treated dropwise with a solution of *N*-(bromomethyl)phthalimide (2.6 g) in THF (19 mL). The reaction mixture was further stirred at -78°C for 1 h and at rt overnight. The solution was quenched with 1*N* HCl (30 mL) and extracted with EA. The org. layer was washed with water and brine, dried

over $MgSO_4$, concentrated under reduced pressure and purified by CC (Hept/EA 1:1), affording, after crystallization from EA, a beige solid (2.28 g; 66% yield).
MS (ESI, m/z): 392.3 [$M+H^+$].

AC.iii. rac-3-amino-2-(3-methoxy-quinoxalin-5-yl)-propionic acid methyl ester:

Hydrazine monohydrate (1.42 mL) was added dropwise at rt to a suspension of intermediate AC.ii (2.28 g) in EtOH (38 mL). After stirring at rt for 2 h the solvent was evaporated under reduced pressure and the residue was taken up in EA and aq. citric acid (10%). The aq. layer was washed with NH_4OH and extracted with DCM. The org. layer was dried over $MgSO_4$ and evaporated under reduced pressure affording a yellow oil (1.16 g; 77% yield) which was further used without any further purification.
MS (ESI, m/z): 262.3 [$M+H^+$].

AC.iv. rac-3-tert-butoxycarbonylamino-2-(3-methoxy-quinoxalin-5-yl)-propionic acid methyl ester:

Starting from intermediate AC.iii (1.16 g) and using procedure G, the title compound was obtained as a colourless solid (1.34 g, 83% yield).
MS (ESI, m/z): 362.0 [$M+H^+$].

AC.v. rac-[3-hydroxy-2-(3-methoxy-1,2-dihydro-quinoxalin-5-yl)-propyl]-carbamic acid tert-butyl ester:

Starting from intermediate AC.iv (701 mg) and using procedure A, the compound was obtained as a colourless foam (554 mg, 85% yield).
MS (ESI, m/z): 336.2 [$M+H^+$].

AC.vi. rac-[3-hydroxy-2-(3-methoxy-quinoxalin-5-yl)-propyl]-carbamic acid tert-butyl ester:

A solution of intermediate AC.v (553 mg) in DCM (30 mL) was treated with MnO_2 (1.35 g). The mixture was stirred at rt for 2 h, filtered and concentrated *in vacuo* to give the desired intermediate as a slightly orange foam (489 mg, 89% yield).
MS (ESI, m/z): 334.1 [$M+H^+$].

AC.vii. rac-(3-oxo-5,6-dihydro-3H-pyrrolo[1,2,3-de]quinoxalin-6-ylmethyl)-carbamic acid tert-butyl ester:

Starting from intermediate AC.vi (486 mg) and using procedure H, the title compound was obtained as a beige solid (393 mg, 89% yield).

MS (ESI, m/z): 302.1 [$M+H^+$].

AC.viii. rac-6-aminomethyl-5,6-dihydro-pyrrolo[1,2,3-de]quinoxalin-3-one:

Starting from intermediate AC.viii (388 mg) and using procedure B, the title compound was obtained as a yellow solid (172 mg, 66% yield).

MS (ESI, m/z): 202.3 [$M+H^+$].

Preparation AD: *(S)*-6-amino-7-fluoro-5,6-dihydro-pyrrolo[1,2,3-*de*]quinoxalin-3-one:

AD.i. (R)-1-(6-fluoro-3-methoxy-quinoxalin-5-yl)-ethane-1,2-diol:

Starting from 7-fluoro-2-methoxy-8-(2-propen-1-yl)-quinoxaline (3.24 g; prepared according to WO 2008/003690) and using procedure L with AD-mix β, the title compound was obtained, after purification by CC (Hept/EA 1:1 then 0:1), as a beige solid (3.39 g, 90% yield).

^{1}H NMR (DMSO d6) δ: 8.57 (s, 1H), 7.96 (dd, J = 9.1, 5.6 Hz, 1H), 7.48 (dd, J = 10.3, 9.1 Hz, 1H), 5.64 (d, J = 6.7 Hz, 1H), 5.26 (d, J = 6.4 Hz, 1H), 4.75 (m, 1H), 4.05 (s, 3H), 3.88 (m, 1H), 3.73 (m, 1H).

AD.ii. (R)-2-(tert-butyl-dimethyl-silanyloxy)-1-(6-fluoro-3-methoxy-quinoxalin-5-yl)-ethanol:

Starting from intermediate AD.i (3.39 g) and using procedure M, the title compound was obtained as a colourless oil (4.83 g, 96% yield).

^{1}H NMR ($CDCl_3$) δ: 8.47 (s, 1H), 7.95 (m, 1H), 7.35 (m, 1H), 5.5 (m, 1H), 4.09 (s, 3H), 4.03 (m, 2H), 0.76 (s, 9H), -0.12 (d, J = 5.0 Hz, 6H).

AD.iii. (S)-[2-(tert-butyl-dimethyl-silanyloxy)-1-(6-fluoro-3-methoxy-quinoxalin-5-yl)-ethyl]-carbamic acid tert-butyl ester:

Starting from intermediate AD.ii (4.73 g) and using procedure N', the title compound was obtained, after purification by CC (Hept/EA 4:1), as a colourless foam (3.48 g; 84% yield).

^{1}H NMR ($CDCl_3$) δ: 8.45 (s, 1H), 7.93 (dd, J = 9.1, 5.6 Hz, 1H), 7.30 (m, 1H), 6.60 (m, 1H), 5.85 (m, 1H), 4.12 (s, 4H), 3.94 (m, 2H), 1.43 (s, 9H), 0.75 (s, 9H), -0.08 (s, 3H), -0.12 (s, 3H).

AD.iv. (S)-[1-(6-fluoro-3-methoxy-quinoxalin-5-yl)-2-hydroxy-ethyl]-carbamic acid tert-butyl ester:

Starting from intermediate AD.iii (5.54 g) and using procedure J, the title compound was obtained as a colourless foam (3.48 g, 84% yield).

^{1}H NMR ($CDCl_3$) δ: 8.45 (s, 1H), 7.95 (dd, J = 9.4, 5.9 Hz, 1H), 7.34 (m, 1H), 6.60 (m, 1H), 5.85 (m, 1H), 4.11 (s, 3H), 3.92 (m, 2H), 1.42 (s, 9H).

AD.v. (S)-(7-fluoro-3-oxo-5,6-dihydro-3H-pyrrolo[1,2,3-de]quinoxalin-6-yl)-carbamic acid tert-butyl ester:

Starting from intermediate AD.iv (3.45 g) and using procedure H followed by heating at reflux for 12 h, a foam (2.64 g) was obtained which contained the desired product in a 1:1 mixture with *(S)*-4-(6-fluoro-3-methoxy-quinoxalin-5-yl)-oxazolidin-2-one. It was used as such in the next step.

AD.vi. (S)-6-amino-7-fluoro-5,6-dihydro-pyrrolo[1,2,3-de]quinoxalin-3-one:

Starting from the mixture obtained at step AD.v (2.64 g, purity 50%) and using procedure B followed by acid/base extraction, the title compound was obtained as an orange solid (550 mg, 60 % yield).

^{1}H NMR (DMSO d6) δ: 8.12 (s, 1H), 7.74 (dd, J = 8.8, 4.4 Hz, 1H), 7.11 (m, 1H), 4.94 (dd, J = 8.5, 3.8 Hz, 1 H), 4.50 (dd, J = 13.2, 8.5 Hz, 1H), 3.90 (dd, J = 13.2, 3.8 Hz, 1H), 2.32 (br., 2H).

Preparation AE: *rac*-1-aminomethyl-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one:

AE.i. rac-1-azidomethyl-1,2-dihydro-pyrrolo[3,2,1-ij]quinolin-4-one:

A solution of the compound of Preparation AB (1.00 g) in DMF (16 mL) was heated at 60°C for 3 h in presence of NaN_3 (2.80 g). The reaction mixture was diluted with water and extracted with EA. The org. layer was washed with water and brine, dried over $MgSO_4$ and evaporated affording a yellow powder (800 mg; 99% yield).

^1H NMR ($CDCl_3$) δ: 7.72 (d, J = 9.4 Hz, 1H), 7.45 (m, 2H), 7.19 (m, 1H), 6.69 (d, J = 9.4 Hz, 1H), 4.55 (dd, J = 13.2, 9.4 Hz, 1 H), 4.26 (dd, J = 13.2, 4.7 Hz, 1H), 3.91 (m, 1H), 3.67 (m, 2H).

AE.ii. rac-1-aminomethyl-1,2-dihydro-pyrrolo[3,2,1-ij]quinolin-4-one:

Starting from intermediate AE.i (800 mg) and using procedure F, the title compound was obtained as a yellow oil (310 mg, 44% yield).

^1H NMR ($CDCl_3$) δ: 7.70 (d, J = 9.4 Hz, 1H), 7.41 (m, 2H), 7.17 (t, J = 7.6 Hz, 1H), 6.67 (d, J = 9.4 Hz, 1H), 4.54 (dd, J = 13.2, 9.7 Hz, 1H), 4.32 (dd, J = 12.6, 4.7 Hz, 1H), 3.80 (m, 1H), 3.10 (d, J = 6.2 Hz, 2H).

Preparation AF: 6-[*(R)*-5-(2-amino-ethyl)-2-oxo-oxazolidin-3-yl]-4*H*-benzo[1,4]thiazin-3-one:

AF.i. 6-[(R)-5-(2-azido-ethyl)-2-oxo-oxazolidin-3-yl]-4H-benzo[1,4]thiazin-3-one:

A solution of the compound of Preparation J (2.5 g) and NaN_3 (523 mg) in DMF (12 mL) was heated at 80°C overnight. The reaction mixture was diluted with EA and extracted with water and brine. The org. layer was dried over $MgSO_4$ and evaporated under reduced pressure. The residue was stirred in ether/MeOH, affording a beige solid (1.9 g; 89% yield).

MS (ESI, m/z): 320.2 [$M+H^+$].

AF.ii. 6-[(R)-5-(2-amino-ethyl)-2-oxo-oxazolidin-3-yl]-4H-benzo[1,4]thiazin-3-one:

Starting from intermediate AF.i (1.8 g) and using procedure F, the title compound was obtained as a colourless solid (1.40 g, 85% yield).

MS (ESI, m/z): 294.4 [$M+H^+$].

Preparation AG: methanesulfonic acid *(S)*-2-oxo-3-(4-propyl-phenyl)-oxazolidin-5-ylmethyl ester:

AG.i. (S)-5-hydroxymethyl-3-(4-propyl-phenyl)-oxazolidin-2-one:

Starting from 4-propyl-aniline and following the procedure described for the preparation of intermediate R.i., the title compound was obtained as a yellow solid (4.3 g; 63% yield)
MS (ESI, m/z): 235.9 [$M+H^+$].

AG.ii. Methanesulfonic acid (S)-2-oxo-3-(4-propyl-phenyl)-oxazolidin-5-ylmethyl ester:

Starting from intermediate AG.i (4.25 g) and using procedure H (with however 1.5 eq. Ms_2O instead of MsCl), the title compound was obtained as an off-white solid (4.30 g, 76% yield).
MS (ESI, m/z): 314.1 [$M+H^+$].

Preparation AH: methanesulfonic acid *(S)*-3-(4-butyl-phenyl)-2-oxo-oxazolidin-5-ylmethyl ester:

AH.i. (S)-5-hydroxymethyl-3-(4-butyl-butyl)-oxazolidin-2-one:

Starting from 4-butyl-aniline and following the procedure described for the preparation of intermediate R.i, the title compound was obtained as a yellow solid (2.99 g; 58% yield).
^1H NMR ($CDCl_3$) δ: 7.43 (d, J = 8.8 Hz, 2H), 7.17 (d, J = 8.8 Hz, 2H), 4.73 (m, 1H), 3.99 (m, 3H), 3.76 (m, 1H), 2.58 (m, 2H), 2.00 (br. s, 1H), 1.57 (m, 2H), 1.34 (m, 2H), 0.92 (t, J = 7.0 Hz, 3H).

AH.ii. Methanesulfonic acid (S)-3-(4-butyl-phenyl)-2-oxo-oxazolidin-5-ylmethyl ester:

Starting from intermediate AH.i (2.90 g) and using procedure H (with however 1.5 eq. of Ms_2O instead of MsCl), the title compound was obtained as an off-white solid (2.48 g, 65% yield).
MS (ESI, m/z): 328.3 [$M+H^+$].

Preparation AI: methanesulfonic acid 2-[*(S)*-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-ethyl ester:

The title compound was prepared in analogy to Preparation J, using however *tert*-butyl-dimethyl-*[(S)*-2-oxiranyl-ethoxy]-silane.

The analytical data were identical with those of the compound of Preparation J.

Preparation AJ: methanesulfonic acid 2-[*(S)*-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-ethyl ester:

AJ.i. (2,3-dihydro-[1,4]dioxino[2,3-c]pyridin-7-yl)-carbamic acid tert-butyl ester:

A suspension of 2,3-dihydro-1,4-dioxino[2,3-*c*]pyridine-7-carboxylic acid (3.20 g; prepared according to WO 2007/016610) in tBuOH (100 mL) was treated with DPPA (4.60 mL) and TEA (3.0 mL) and heated at 80°C overnight. The solvent was evaporated under reduced pressure and the residue as partitioned between water and EA. The org. layer was washed with brine, dried over $MgSO_4$ and evaporated under reduced pressure. The residue was stirred in ether, affording a beige solid (2.90 g; 65% yield).

^{1}H NMR ($CDCl_3$) δ: 7.84 (s, 1H), 7.49 (s, 1H), 4.31 (m, 2H), 4.23 (m, 2H), 1.52 (s, 11H).

AJ.ii. rac-5-[2-(tert-butyl-dimethyl-silanyloxy)-ethyl]-3-(2,3-dihydro-[1,4]dioxino[2,3-c]pyridin-7-yl)-oxazolidin-2-one:

A solution of intermediate AJ.i (3.30 g) and 2-[2-[[*(tert*-butyl)dimethylsilyl]oxy]ethyl]-oxirane (2.65 g; prepared according to *J. Org. Chem.* (2008), **73**(3), 1093-1098) in DMF (42 mL) was cooled to 0°C and treated with tBuOLi (18 mL; 2.2*M* in THF). The reaction mixture was allowed to reach rt and further stirred at 80°C for 2 days. The reaction mixture was diluted with EA and washed with water and brine. The org. layer was dried over $MgSO_4$ and purified by CC (Hex/EA1:1), affording a yellow oil (2.70 g; 54% yield).
MS (ESI, m/z): 381.0 [$M+H^+$].

AJ.iii. rac-3-(2,3-dihydro-[1,4]dioxino[2,3-c]pyridin-7-yl)-5-(2-hydroxy-ethyl)-oxazolidin-2-one:

Starting from intermediate AJ.ii and using procedure J, the title compound was obtained as a yellow solid (1.10 g, 58% yield).
MS (ESI, m/z): 267.1 [$M+H^+$].

AJ.iv. Methanesulfonic acid 2-[(S)-2-oxo-3-(3-oxo-3,4-dihydro-2H-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-ethyl ester:

Starting from intermediate AJ.iii and using procedure H, the title compound was obtained as a beige solid (1.30 g, 100% yield).

MS (ESI, m/z): 345.2 [$M+H^+$].

Preparation AK: *rac*-methanesulfonic acid 2-[3-(2,3-dihydro-[1,4]dioxino[2,3-b]pyridin-6-yl)-2-oxo-oxazolidin-5-yl]-ethyl ester:

AK.i. (2,3-dihydro-[1,4]dioxino[2,3-b]pyridin-6-yl)-carbamic acid benzyl ester:

A solution of 2,3-dihydro-1,4-dioxino[2,3-*b*]pyridin-6-amine (commercial; 2.70 g) in acetone/water 1:1 (40 mL) was treated at 0°C with 1*M* $NaHCO_3$ (35 mL) and CbzCl (2.63 mL). The reaction mixture was stirred at rt for 3 h, the org. solvent was evaporated under reduced pressure and the residue was partitioned between water and ether/EA. The org layer was dried over $MgSO_4$ and evaporated under reduced pressure, affording a beige solid (5.3 g; 100% yield).

^1H NMR ($CDCl_3$) δ: 7.50 (d, J = 8.5 Hz, 1H), 7.36 (m, 5H), 7.20 (d, J = 8.8 Hz, 1H), 7.15 (br., 1H), 4.37 (m, 2H), 4.19 (m, 2H).

AK.ii. rac-5-[2-(tert-butyl-dimethyl-silanyloxy)-ethyl]-3-(2,3-dihydro-[1,4]dioxino[2,3-b]pyridin-6-yl)-oxazolidin-2-one:

Starting from intermediate AK.i and 2-[2-[[*(tert*-butyl)dimethylsilyl]oxy]ethyl]-oxirane, the compound was prepared in analogy to Preparation AJ, step AJ.ii. The product was purified by CC (Hex/EA 1:1), affording a brown oil (2.90 g; 73% yield).

MS (ESI, m/z): 381.2 [$M+H^+$].

AK.iii. rac-3-(2,3-dihydro-[1,4]dioxino[2,3-b]pyridin-6-yl)-5-(2-hydroxy-ethyl)-oxazolidin-2-one:

Starting from intermediate AK.ii and using procedure J, the title compound was obtained as a yellow solid (1.10 g, 56% yield).

MS (ESI, m/z): 266.8 [$M+H^+$].

AK.iv. rac-methanesulfonic acid 2-[3-(2,3-dihydro-[1,4]dioxino[2,3-b]pyridin-6-yl)-2-oxo-oxazolidin-5-yl]-ethyl ester:

Starting from intermediate AK.iii and using procedure H, the title compound was obtained as a beige solid (1.24 g, 96% yield).

^{1}H NMR ($CDCl_3$) δ: 7.71 (d, J = 8.8 Hz, 1H), 7.24 (m, 1H), 4.79 (m, 1H), 4.43 (m, 4H), 4.33 (m, 1H), 4.23 (m, 2H), 3.89 (dd, J = 10.3, 6.7 Hz, 1H), 3.04 (s, 3H), 2.20 (m, 2H).

Preparation AL: methanesulfonic acid 2-[*(R)*-3-(4-ethoxy-phenyl)-2-oxo-oxazolidin-5-yl]-ethyl ester:

AL.i. (R)-4-(tert-butyl-dimethyl-silanyloxy)-1-(4-ethoxy-phenylamino)-butan-2-ol:

A solution of 4-ethoxy-aniline (commercial; 3.2 mL) in EtOH/water (9:1; 150 mL) was reacted with *(2R)*-2-[2-[[(*tert*-butyl)dimethylsilyl]oxy]ethyl]-oxirane (prepared according to WO 2007/144423) and further heated at 80°C overnight. The solvents were removed under reduced pressure and the residue was purified by CC (EA/Hept 1:1), affording a brown oil (5.22 g; 62% yield).

MS (ESI, m/z): 340.2 [$M+H^+$].

AL.ii. (R)-5-[2-(tert-butyl-dimethyl-silanyloxy)-ethyl]-3-(4-ethoxy-phenyl)-oxazolidin-2-one:

Starting from intermediate AL.i and using procedure I, the title compound was obtained as an off-white solid (4.30 g, 76% yield).

MS (ESI, m/z): 366.1 [$M+H^+$].

AL.iii. (R)-3-(4-ethoxy-phenyl)-5-(2-hydroxy-ethyl)-oxazolidin-2-one:

Starting from intermediate AL.ii and using procedure J, the title compound was obtained as an off-white solid (1.53 g, 52% yield).

MS (ESI, m/z): 251.9 [$M+H^+$].

AL.iv. Methanesulfonic acid 2-[(R)-3-(4-ethoxy-phenyl)-2-oxo-oxazolidin-5-yl]-ethyl ester:

Starting from intermediate AL.iii and using procedure H, the title compound was obtained as an off-white solid (1.89 g, 96% yield).

MS (ESI, m/z): 330.0 [M+H$^+$].

Preparation AM: methanesulfonic acid 2-[*(R)*-2-oxo-3-(4-propyl-phenyl)-oxazolidin-5-yl]-ethyl ester:

AM.i. (R)-4-(tert-butyl-dimethyl-silanyloxy)-1-(4-propyl-phenylamino)-butan-2-ol:

Starting from 4-propyl-aniline, the title compound was prepared in analogy to Preparation AL, step AL.i. A brown oil (6.99 g; 84% yield) was obtained.
MS (ESI, m/z): 338.2 [M+H$^+$].

AM.ii. (R)-5-[2-(tert-butyl-dimethyl-silanyloxy)-ethyl]-3-(4-propyl-phenyl)-oxazolidin-2-one:

Starting from intermediate AM.i and using procedure I, the title compound was obtained as a brown oil (4.50 g, 60% yield).
MS (ESI, m/z): 364.1 [M+H$^+$].

AM.iii. (R)-5-(2-hydroxy-ethyl)-3-(4-propyl-phenyl)-oxazolidin-2-one:

Starting from intermediate AM.ii and using procedure J, the title compound was obtained as a yellowish solid (1.76 g, 57% yield).
MS (ESI, m/z): 249.9 [M+H$^+$].

AM.iv. Methanesulfonic acid 2-[(R)-2-oxo-3-(4-propyl-phenyl)-oxazolidin-5-yl]-ethyl ester:

Starting from intermediate AM.iii and using procedure H, the title compound was obtained as an off-white solid (2.13 g, 93% yield).
MS (ESI, m/z): 328.4 [M+H$^+$].

Preparation AN: methanesulfonic acid 2-[*(R)*-3-(2,3-dihydro-benzo[1,4]dioxin-6-yl)-2-oxo-oxazolidin-5-yl]-ethyl ester:

AN.i. (R)-4-(tert-butyl-dimethyl-silanyloxy)-1-(2,3-dihydro-benzo[1,4]dioxin-6-ylamino)-butan-2-ol:

Starting from 2,3-dihydro-1,4-benzodioxin-6-amine (commercial), the title compound was prepared in analogy to Preparation AL, step AL.i. A brown oil (4.50 g; 51% yield) was obtained.

MS (ESI, m/z): 354.3 [$M+H^+$].

AN.ii. (R)-5-[2-(tert-butyl-dimethyl-silanyloxy)-ethyl]-3-(2,3-dihydro-benzo[1,4]dioxin-6-yl)-oxazolidin-2-one:

Starting from intermediate AN.i and using procedure I, the title compound was obtained as a yellow solid (3.42 g, 71% yield).

MS (ESI, m/z): 380.2 [$M+H^+$].

AN.iii. (R)-3-(2,3-dihydro-benzo[1,4]dioxin-6-yl)-5-(2-hydroxy-ethyl)-oxazolidin-2-one:

Starting from intermediate AN.ii and using procedure J, the title compound was obtained as an off-white solid (1.72 g, 72% yield).

^1H NMR ($CDCl_3$) δ: 7.06 (d, J = 2.6 Hz, 1H), 6.97 (dd, J = 8.8, 2.6 Hz, 1H), 6.84 (m, 1H), 4.81 (m, 1H), 4.24 (m, 4H), 4.06 (t, J = 8.8 Hz, 1H), 3.88 (m, 2H), 3.69 (dd, J = 8.8, 7.3 Hz, 1H), 2.03 (m, 2H), 1.82 (br. s, 1H).

AN.iv. Methanesulfonic acid 2-[(R)-3-(2,3-dihydro-benzo[1,4]dioxin-6-yl)-2-oxo-oxazolidin-5-yl]-ethyl ester:

Starting from intermediate AN.iii and using procedure H, the title compound was obtained as an off-white solid (2.03 g, 92% yield).

MS (ESI, m/z): 344.2 [$M+H^+$].

Preparation AO: *rac*-methanesulfonic acid 2-{3-[4-(4-methoxy-benzyl)-3-oxo-3,4-dihydro-2*H*-pyrido[3,2-*b*][1,4]oxazin-6-yl]-2-oxo-oxazolidin-5-yl}-ethyl ester:

AO.i. 6-bromo-4-(4-methoxy-benzyl)-4H-pyrido[3,2-b][1,4]oxazin-3-one:

A suspension of 6-bromo-2*H*-pyrido[3,2-*b*]-1,4-oxazin-3(4*H*)-one (2.0 g; prepared according to WO 01/30782) in DMF (40 mL) was treated with 4-methoxybenzyl chloride (1.18 mL) and Cs_2CO_3 (8.5 g) and stirred at rt for 2 h. The solvent was evaporated under reduced pressure and the residue was partitioned between EA and water. The org. layer was washed with brine, dried over $MgSO_4$ and evaporated under reduced pressure. The residue was triturated with Hept, affording a beige solid (2.8 g; 92% yield).

^{1}H NMR ($CDCl_3$) δ: 7.49 (d, J = 8.8 Hz, 2H), 7.05 (s, 2H), 6.83 (d, J = 8.8 Hz, 2H), 6.83 (d, J = 8.8 Hz, 2H), 6.83 (d, J = 8.8 Hz, 2H), 4.67 (s, 2H), 3.77 (s, 3H).

AO.ii. rac-1-azido-4-(tert-butyl-dimethyl-silanyloxy)-butan-2-ol:

A solution of 2-[2-[[(*tert*-butyl)dimethylsilyl]oxy]ethyl]-oxirane (5.0 g; prepared according to WO 2007/144423) in MeOH (150 mL) was reacted with NaN_3 (3.95 g) and NH_4Cl (2.37 g). The reaction mixture was further stirred at 80°C overnight. The solvent was evaporated under reduced pressure and the residue was partitioned between EA and water. The org. layer was washed with brine, dried over Na_2SO_4 and evaporated under reduced pressure, affording a yellow oil (4.9 g; 81% yield).

^{1}H NMR ($CDCl_3$) δ: 4.01 (m, 1H), 3.87 (m, 2H), 3.30 (m, 2H), 1.72 (m, 2H), 0.90 (m, 9H), 0.06 (m, 6H).

AO.iii. rac-1-amino-4-(tert-butyl-dimethyl-silanyloxy)-butan-2-ol:

A solution of intermediate AO.ii (4.85 g) in THF (100 mL) was hydrogenated for 3 h over 10% Pd/C (1.0 g). The catalyst was filtered off and the filtrate was evaporated under reduced pressure, affording a yellow oil (4.1 g; 94.5% yield).

MS (ESI, m/z): 219.8 [$M+H^+$].

AO.iv. rac-5-[2-(tert-butyl-dimethyl-silanyloxy)-ethyl]-oxazolidin-2-one:

Starting from intermediate AO.iii (4.0 g) and using procedure I, the title compound was obtained as a light yellow oil (3.3 g; 74% yield).

^{1}H NMR ($CDCl_3$) δ: 5.22 (br., 1H), 4.80 (m, 1H), 3.74 (m, 3H), 3.33 (m, 1H), 1.93 (m, 2H), 0.89 (m, 9H), 0.07 (m, 6H).

AO.v. rac-6-{5-[2-(tert-butyl-dimethyl-silanyloxy)-ethyl]-2-oxo-oxazolidin-3-yl}-4-(4-methoxy-benzyl)-4H-pyrido[3,2-b][1,4]oxazin-3-one:

Intermediates AO.iv (1.97 g) and AO.i (2.8 g), CuI (305 mg) and K_2CO_3 (2.2 g) were placed in a round bottom flask which was then flushed with argon. *Trans*-1,2-diaminocyclohexane (1.2 mL) and dioxane (60 mL) were added to the mixture and the reaction flask was again flushed with argon. The reaction mixture was stirred at 100°C for 2 days and partitioned between EA and water. The org. layer was washed with brine, dried over $MgSO_4$ and evaporated under reduced pressure. The residue was purified by CC (DCM/MeOH 19:1), affording, after crystallisation from Hept, a colourless solid (1.7 g; 41% yield).

^{1}H NMR ($CDCl_3$) δ: 7.81 (d, J = 8.8 Hz, 1H), 7.28 (m, 3H), 6.81 (m, 2H), 5.20 (s, 2H), 4.82 (m, 1H), 4.28 (m, 1H), 3.85 (m, 3H), 3.77 (s, 3H), 2.00 (m, 2H), 0.89 (s, 9H), 0.07 (s, 6H).

AO.vi. rac-6-[5-(2-hydroxy-ethyl)-2-oxo-oxazolidin-3-yl]-4-(4-methoxy-benzyl)-4H-pyrido[3,2-b][1,4]oxazin-3-one:

Starting from intermediate AO.v (1.7 g) and using procedure J, the title compound was obtained, after purification by CC (EA then EA/MeOH 9:1), as a yellow oil (1.4 g; 100% yield).

MS (ESI, m/z): 400.0 [$M+H^+$].

AO.vii. rac-methanesulfonic acid 2-{3-[4-(4-methoxy-benzyl)-3-oxo-3,4-dihydro-2H-pyrido[3,2-b][1,4]oxazin-6-yl]-2-oxo-oxazolidin-5-yl}-ethyl ester:

Starting from intermediate AO.vi (1.32 g) and using procedure H, the title compound was obtained as a colourless foam (1.3 g; 82.5% yield)

MS (ESI, m/z): 477.8 [$M+H^+$].

Preparation AP: 6-[*(S)*-5-(2-amino-ethyl)-2-oxo-oxazolidin-3-yl]-4*H*-benzo[1,4]thiazin-3-one:

AP.i. 6-[(S)-5-(2-azido-ethyl)-2-oxo-oxazolidin-3-yl]-4H-benzo[1,4]thiazin-3-one:

A solution of intermediate L (1.90 g) in DMF (8 mL) was treated with NaN_3 (400 mg) and stirred at 80°C overnight. The reaction mixture was diluted with water and extracted with EA. The org. layer was washed with water and brine, dried over $MgSO_4$ and evaporated under reduced pressure. The residue was stirred in ether/MeOH, affording a beige solid (1.30 g; 80% yield).

MS (ESI, m/z): 320.3 [$M+H^+$].

AP.ii. 6-[(S)-5-(2-amino-ethyl)-2-oxo-oxazolidin-3-yl]-4H-benzo[1,4]thiazin-3-one:

Starting from intermediate AP.i and using procedure F, the title compound was obtained as a beige solid (0.90 g, 82% yield).

MS (ESI, m/z): 294.4 [$M+H^+$].

Preparation AQ: methanesulfonic acid 2-[*(S)*-3-(2,3-dihydro-benzo[1,4]dioxin-6-yl)-2-oxo-oxazolidin-5-yl]-ethyl ester:

Starting from *(2S)*-2-[2-[[(*tert*-butyl)dimethylsilyl]oxy]ethyl]-oxirane, the title compound was prepared in analogy to Preparation AN.

The analytical data were identical with those of the compound of Preparation AN.

Preparation AR: 3-[*(R)*-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-pyrido[3,2-*b*][1,4]oxazin-6-yl)-oxazolidin-5-yl]-propionaldehyde:

AR.i. (R)-1-azido-5-(tert-butyl-dimethyl-silanyloxy)-pentan-2-ol:

Starting from *(R)*-2-[2-[[(*tert*-butyl)dimethylsilyl]oxy]propyl]-oxirane (5.0 g; prepared according to *Organic Letters* (2005), **7**(18), 3997-4000) and NaN_3, the title compound was prepared in analogy to Preparation AO, step AO.ii. It was obtained as an oil (5.17 g; 86% yield).

^1H NMR ($CDCl_3$) δ: 3.79 (m, 1H), 3.68 (m, 2H), 3.29 (m, 2H), 1.66 (m, 4H), 0.90 (m, 9H), 0.07 (m, 6H).

AR.ii. (R)-5-[2-(tert-butyl-dimethyl-silanyloxy)-propyl]-oxazolidin-2-one:

The title compound was prepared in analogy to Preparation AO, steps AO.iii and AO.iv by hydrogenation of intermediate AR.ii using procedure F and reaction with CDI using procedure I. It was obtained as a colourless solid (3.48 g; 67% yield).

^{1}H NMR ($CDCl_3$) δ: 5.22 (br., 1H), 4.68 (m, 1H), 3.66 (m, 3H), 3.25 (t, J = 7.6 Hz, 1H), 1.72 (m, 4H), 0.89 (m, 9H), 0.05 (m, 6H).

AR.iii. (R)-6-{5-[2-(tert-butyl-dimethyl-silanyloxy)-propyl]-2-oxo-oxazolidin-3-yl}-4-(4-methoxy-benzyl)-4H-pyrido[3,2-b][1,4]oxazin-3-one:

Starting from intermediates AO.i (1.97 g) and AR.ii, the title compound was prepared in analogy to Preparation AO, step AO.v. It was obtained as a colourless foam (4.43 g; 70% yield).

^{1}H NMR ($CDCl_3$) δ: 7.80 (d, J = 8.5 Hz, 1H), 7.28 (m, 3H), 6.81 (d, J = 8.8 Hz, 2H), 5.20 (s, 2H), 4.67 (m, 3H), 4.22 (dd, J = 10.0, 8.5 Hz, 1H), 3.77 (s, 3H), 3.70 (m, 2H), 1.78 (m, 4H), 0.90 (m, 9H), 0.06 (s, 6H).

AR.iv. (R)-6-[5-(2-hydroxy-propyl)-2-oxo-oxazolidin-3-yl]-4-(4-methoxy-benzyl)-4H-pyrido[3,2-b][1,4]oxazin-3-one:

The title compound was prepared in analogy to Preparation AO, step AO.vi, starting from intermediate AR.iii. It was obtained as a colourless solid (640 mg; 38% yield).

^{1}H NMR (DMSO d6) δ: 11.16 (s, 1H), 7.57 (m, 1H), 7.40 (d, J = 8.8 Hz, 1H), 4.68 (s, 1H), 4.59 (s, 2H), 4.47 (t, J = 5.0 Hz, 1H), 4.19 (m, 1H), 3.69 (dd, J = 10.0, 7.0 Hz, 1H), 3.43 (q, J = 6.2 Hz, 2H), 1.73 (m, 2H), 1.51 (dd, J = 9.7, 6.7 Hz, 2H).

AR.v. 3-[(R)-2-oxo-3-(3-oxo-3,4-dihydro-2H-pyrido[3,2-b][1,4]oxazin-6-yl)-oxazolidin-5-yl]-propionaldehyde:

A solution of SO_3.Pyr complex (900 mg) in DMSO (3 mL) was added dropwise at rt over 10 min to a suspension of intermediate AR.iv (830 mg) and DIPEA (1.45 mL) in DCM/DMSO (1:1; 5 mL). The mixture was further stirred at rt for 1 h, diluted with water and extracted with DCM. The org. layer was successively washed with water and brine, dried over $MgSO_4$, concentrated under reduced pressure and crystallized from ether/EA, affording a colourless solid (618 mg; 75% yield).

^{1}H NMR (DMSO d6) δ: 11.17 (s, 1H), 9.68 (s, 1H), 7.57 (m, 1H), 7.40 (d, J = 8.8 Hz, 1H), 4.66 (m, 1H), 4.59 (s, 2H), 4.20 (m, 1H), 3.70 (dd, J = 10.0, 7.0 Hz, 1H), 2.59 (m, 2H), 1.98 (m, 2H).

Preparation AS: *(S)*-1-amino-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one:

AS.i. 2-methoxy-8-vinyl-quinoline:

$(PPh_3)_4Pd$ (578 mg) was added at rt to a solution of vinylboronic anhydride pyridine complex (1.2 g) in DME (80 mL). The solution was degassed by bubbling N_2 through for 20 min. K_2CO_3 (1.38 g), water (24 mL) and trifluoro-methanesulfonic acid 2-methoxy-quinolin-8-yl ester (3.07 g) were added. The mixture was refluxed overnight, cooled to rt and partitioned between water and ether. The aq. phase was washed with ether and the combined org. phases were washed with water and brine, dried over $MgSO_4$, concentrated under reduced pressure and purified by CC (Hept/EA 4:1), affording a yellow liquid (1.18 g; 64% yield).

^{1}H NMR ($CDCl_3$) δ: 7.97 (d, J = 8.8 Hz, 1H), 7.88 (m, 2H), 7.64 (dd, J = 7.9, 1.5 Hz, 1H), 7.36 (t, J = 7.6 Hz, 1H), 6.91 (d, J = 8.8 Hz, 1H), 6.02 (dd, J = 17.9, 1.8 Hz, 1H), 5.45 (dd, J = 11.1, 1.8 Hz, 1H), 4.10 (s, 3H).

AS.ii. (R)-1-(2-methoxy-quinolin-8-yl)-ethane-1,2-diol:

Starting from intermediate AS.i and AD-mix β and using procedure L, the title compound was obtained as a beige solid (3.22 g, quant).

MS (ESI, m/z): 279.3 [$M+H^+$].

AS.iii. (R)-2-(tert-butyl-dimethyl-silanyloxy)-1-(2-methoxy-quinolin-8-yl)-ethanol:

Starting from intermediate AS.ii and using procedure M, the title compound was obtained as a yellow oil (4.16 g, quant.).

MS (ESI, m/z): 334.0 [$M+H^+$].

AS.iv. [(S)-2-(tert-butyl-dimethyl-silanyloxy)-1-(2-methoxy-quinolin-8-yl)-ethyl]-carbamic acid tert-butyl ester:

Starting from intermediate AS.iii (4.70 g), the title compound was prepared in analogy to Preparation Z, steps Z.iv (Mitsunobu reaction followed by azide reduction) and Z.v. (Boc

protection using procedure G). It was obtained as a slightly yellow oil (8.4 g; quant.; contaminated by Boc_2O).

MS (ESI, m/z): 359.3 [$M+H^+$].

AS.v. [(S)-2-hydroxy-1-(2-methoxy-quinolin-8-yl)-ethyl]-carbamic acid tert-butyl ester:

Starting from intermediate AS.iv (6.48 g) and using procedure J, the title compound was obtained as a colourless foam (2.99 g; 63% yield).

MS (ESI, m/z): 319.0 [$M+H^+$].

AS.vi. ((S)-4-oxo-1,2-dihydro-4H-pyrrolo[3,2,1-ij]quinolin-1-yl)-carbamic acid tert-butyl ester:

Starting from intermediate AS.v (3.34 g) and using procedure H (but heating the reaction mixture at 50°C), the title compound was obtained as a colourless solid (2.64 g; 88% yield).

MS (ESI, m/z): 287.1 [$M+H^+$].

AS.vii. ***(S)-1-amino-1,2-dihydro-pyrrolo[3,2,1-ij]quinolin-4-one****:*

Starting from intermediate AS.vi (2.63 g) and using procedure B, the title compound was obtained as a colourless solid (1.58 g; 93% yield).

MS (ESI, m/z): 187.1 [$M+H^+$].

Preparation AT: *(S)*-4-aminomethyl-4,5-dihydro-pyrrolo[3,2,1-*de*][1,5]naphthyridin-7-one:

AT.i. Acetic acid (S)-3-azido-2-(6-methoxy-[1,5]naphthyridin-4-yl)-propyl ester:

Starting from intermediate V.ii (1.65 g) and using the same procedure as for the preparation of intermediate Z.iv, the title compound was obtained as a colourless oil (1.63 g; 90% yield).

MS (ESI, m/z): 302.0 [$M+H^+$].

AT.ii. Acetic acid (S)-3-tert-butoxycarbonylamino-2-(6-methoxy-[1,5]naphthyridin-4-yl)-propyl ester:

Starting from intermediate AT.i (1.63 g) and using succesively procedures F and G, the title compound was obtained as pale yellow oil (2.04 g; 100% yield).

MS (ESI, m/z): 376.2 [M+H$^+$].

AT.iii. [(S)-3-hydroxy-2-(6-methoxy-[1,5]naphthyridin-4-yl)-propyl]-carbamic acid tert-butyl ester:

A suspension of intermediate AT.ii (2.05 g) and K_2CO_3 (3.02 g) in MeOH (72 mL) was stirred at rt for 30 min. The solvent was removed under reduced pressure and the residue was taken up in DCM/water. The org. layer was washed with brine, dried over $MgSO_4$, concentrated and purified by CC (DCM/MeOH/NH_4OH 1000:50:4), affording a colourless foam (1.28 g; 70% yield).
MS (ESI, m/z): 334.2 [M+H$^+$].

AT.iv. ((S)-7-oxo-4,5-dihydro-7H-pyrrolo[3,2,1-de][1,5]naphthyridin-4-ylmethyl)-carbamic acid tert-butyl ester:

Starting from intermediate AT.iii (1.28 g) and using procedure H for the formation of the mesylate, followed by heating of the reaction mixture for 2 h at 60°C to complete the cyclisation, the title compound was obtained as a colourless foam (985 mg; 85% yield).
MS (ESI, m/z): 302.2 [M+H$^+$].

AT.v. (S)-4-aminomethyl-4,5-dihydro-pyrrolo[3,2,1-de][1,5]naphthyridin-7-one:

Starting from intermediate AT.iv (980 mg) and using procedure B, the title compound was obtained as pale yellow solid (522 mg; 80% yield).
MS (ESI, m/z): 202.2 [M+H$^+$].

Preparation AU: 3-[*(S)*-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-propionaldehyde:

Starting from *(S)-tert*-butyl-dimethyl-(3-oxiranyl-propoxy)-silane (prepared according to *Org. Lett.* (2005), **7**(19), 4083-4086), the title compound (obtained as a pink solid) was prepared in analogy to Preparation U in 4 steps (epoxide opening: 50% yield; oxazolidinone formation: 100% yield; alcohol deprotection: 71% yield; aldehyde formation: 91% yield).
The analytical data were identical with those of the compound of Preparation U.

Preparation AV: 3-[(*S*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]oxazin-6-yl)-oxazolidin-5-yl]-propionaldehyde:

Starting from *(S)-tert*-butyl-dimethyl-(3-oxiranyl-propoxy)-silane (prepared according to *Org. Lett.* (2005), **7**(19), 4083-4086), the title compound (obtained as a beige solid) was prepared in analogy to Preparation T in 4 steps (epoxide opening: 45% yield, oxazolidinone formation: 100% yield, alcohol deprotection: 65% yield, aldehyde formation: 87% yield).

The analytical data were identical with those of the compound of Preparation T.

Preparation AW: methanesulfonic acid 3-[*(S)*-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-propyl ester:

AW.i. 6-[(S)-5-(tert-butyl-dimethyl-silanyloxy)-2-hydroxy-pentylamino]-4H-benzo[1,4]thiazin-3-one:

A mixture of *(S)-tert*-butyl-dimethyl-(3-oxiranyl-propoxy)-silane (28.3 g, prepared according to *Org. Lett.* (2005), **7**, 3997) and 6-amino-4*H*-benzo[1,4]thiazin-3-one (23.6 g) in MeCN (390 mL) was treated with $LiClO_4$ (41.8 g) and heated at 60°C for 4 h. The volatiles were removed under reduced pressure and the residue partitioned between EA and brine. The org. phase was dried over $MgSO_4$ and concentrated. The residue was purified by CC (Hept/EA 1:1, EA) to give the desired intermediate as a yellowish foam (8.4 g; 16% yield).

MS (ESI, m/z): 397.1 [$M+H^+$].

AW.ii. 6-{(S)-5-[3-(tert-butyl-dimethyl-silanyloxy)-propyl]-2-oxo-oxazolidin-3-yl}-4H-benzo[1,4]thiazin-3-one:

A solution of intermediate AW.i (8.0 g) in THF (500 mL) was treated with CDI (4.9 g) and heated at 50°C overnight. The mixture was cooled to rt, diluted with EA and washed with water and brine, dried over $MgSO_4$ and concentrated. The product was crystallized from Hept/EA to give the desired oxazolidinone as a beige solid (4.5 g; 53% yield).

MS (ESI, m/z): 423.4 [$M+H^+$].

AW.iii. 6-[(S)-5-(3-hydroxy-propyl)-2-oxo-oxazolidin-3-yl]-4H-benzo[1,4]thiazin-3-one:

A suspension of intermediate AW.ii (4.5 g) in THF (42 mL) was treated with 1*M* TBAF solution in THF (1 eq.). The brown solution was stirred at rt for 4 h, diluted with EA and washed with water and brine, dried over $MgSO_4$ and concentrated. The residue was purified by CC (EA then EA/MeOH 9:1) to give the desired alcohol as a yellowish foam (3.6 g; 100% yield).

MS (ESI, m/z): 309.3 [$M+H^+$].

AW.iv. Methanesulfonic acid 3-[(S)-2-oxo-3-(3-oxo-3,4-dihydro-2H-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-propyl ester:

A suspension of intermediate AW.iii (3.0 g) in DCM was treated with TEA (2.8 mL) and dropwise with MsCl (1.37 g). The mixture was stirred at rt for 2 h, diluted with DCM, washed with water, dried over $MgSO_4$ and concentrated. The residue was crystallized from ether/EA to give the desired mesylate as a beige solid (3.6 g; 93% yield).

MS (ESI, m/z): 387.2 [$M+H^+$].

Preparation AX: *rac*-4-amino-3-fluoro-4,5-dihydro-pyrrolo[3,2,1-*de*][1,5]naphthyridin-7-one:

AX.i. 7-fluoro-2-methoxy-8-vinyl-[1,5]naphthyridine:

To a solution of 8-bromo-7-fluoro-2-methoxy-1,5-naphthyridine (5.0 g; commercial) in 1,2-DME (150 mL) was added tetrakis-(PPh_3)Pd (1.1 g) and the mixture was purged with N_2 for 20 min. K_2CO_3 (2.69 g), water (50 mL) and vinylboronic anhydride pyridine complex (2.34 g) were added. The mixture was stirred at reflux for 3 h. After cooling to rt, water was added and the mixture was extracted with EA. The combined org. phases were washed with brine, dried over $MgSO_4$, concentrated and purified by CC (EA/Hept 1:1), affording the title intermediate as a brown oil (3.12 g, 79% yield).

MS (ESI, m/z): 205.0 [$M+H^+$].

AX.ii. (R)-1-(3-fluoro-6-methoxy-[1,5]naphthyridin-4-yl)-ethane-1,2-diol:

Starting from intermediate AX.i (3.12 g) and using procedure L with AD-mix β, the title compound was obtained as an off-white solid (4 g, quant.).

MS (ESI, m/z): 239.0 [$M+H^+$].

AX.iii. (R)-2-(tert-butyl-dimethyl-silanyloxy)-1-(3-fluoro-6-methoxy-[1,5]naphthyridin-4-yl)-ethanol:

To a solution of intermediate AX.ii (3.96 g) in DCM (160 mL) were added imidazole (1.05 eq.), TBDMSCl (1.05 eq.) and DMAP (0.1 eq.). The mixture was stirred at rt for 1 h. Water was added and the mixture was extracted with DCM. The org. layer was dried over $MgSO_4$ and concentrated to afford the title intermediate as a yellow oil (4.52 g, 77%).
MS (ESI, m/z): 353.2 [$M+H^+$].

AX.iv. [(S)-2-(tert-butyl-dimethyl-silanyloxy)-1-(3-fluoro-6-methoxy-[1,5]naphthyridin-4-yl)-ethyl]-carbamic acid tert-butyl ester:

Starting from intermediate AX.iii (4.52 g) and using procedure N', the title intermediate was obtained as a light yellow oil (6.76 g, quant.).
MS (ESI, m/z): 452.2 [$M+H^+$].

AX.v. [(S)-1-(3-fluoro-6-methoxy-[1,5]naphthyridin-4-yl)-2-hydroxy-ethyl]-carbamic acid tert-butyl ester:

Starting from intermediate AX.iv (6.76 g) and using procedure J, the title intermediate was obtained as a yellow oil (3.96 g, 78% yield).
MS (ESI, m/z): 338.2 [$M+H^+$].

AX.vi. ((S)-3-fluoro-7-oxo-4,5-dihydro-7H-pyrrolo[3,2,1-de][1,5]naphthyridin-4-yl)-carbamic acid tert-butyl ester:

Starting from intermediate AX.v (3.46 g) and using procedure H followed by heating at 80°C for 18 h in DCE, the title intermediate was obtained as a yellow oil (0.90 g, 28% yield).
MS (ESI, m/z): 306.2 [$M+H^+$].

AX.vii. rac-4-amino-3-fluoro-4,5-dihydro-pyrrolo[3,2,1-de][1,5]naphthyridin-7-one:

Starting from intermediate AX.vi (0.875 g) and using procedure B, the title intermediate was obtained as a pale yellow solid (0.42 g, 71% yield). An analysis of the *ee*-value indicated that the product was present as a racemate. Since no *ee*-determinations in previous steps have been made, a racemisation at an earlier stage in the synthetic sequence cannot be excluded.

MS (ESI, m/z): 206.1 [$M+H^+$].

Preparation AY: methanesulfonic acid 2-[*(S)*-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]oxazin-6-yl)-oxazolidin-5-yl]-ethyl ester:

Starting from *tert*-butyl-dimethyl-[*(S)*-2-oxiranyl-ethoxy]-silane, the title compound was prepared in analogy to Preparation I.

The analytical data were identical with those of the compound of Preparation I.

Preparation AZ: *(R)*-6-amino-7-fluoro-5,6-dihydro-pyrrolo[1,2,3-de]quinoxalin-3-one:

The title compound was prepared as described in Preparation AD, using however AD-mix α in the first step.

The analytical data were identical with those of the compound of Preparation AD.

Preparation BA: 6-{5-[(*1RS*)-1-(*tert*-butyl-dimethyl-silanyloxy)-3-hydroxy-propyl]-((*5RS*)-2-oxo-oxazolidin-3-yl)}-4*H*-benzo[1,4]thiazin-3-one:

BA.i. (3RS)-3-(tert-butyl-dimethyl-silanyloxy)-3-((2RS)-oxiran-2-yl)-propionic acid tert-butyl ester:

A solution of 3-[[(*tert*-butyl-dimethylsilyl]oxy]-4-pentenoic acid *tert*-butyl ester (3.60 g; prepared according to *J. Org. Chem.* (1994), **59**, 4760-4764) in DCM (100 mL) was reacted with MCPBA (3.96 g) for 2 days. The reaction mixture was partitioned between DCM and an aq. solution containing $Na_2S_2O_3$ (10%) and $NaHCO_3$ (sat.). The org. phase was separated, dried over $MgSO_4$, evaporated under reduced pressure and purified by CC (Hept/EA 9:1 to 4:1), affording a colourless liquid (2.55 g; 67% yield; 3:2 mixture of diastereomers).

^1H NMR ($CDCl_3$) δ: 4.02 (m, 1H, diast. B), 3.76 (d, J = 6.4 Hz, 1H, diast. A), 3.02 (m, 1H, diast. A), 2.99 (m, 1H, diast. B), 2.8-2.4 (m, 4H, diast. A and B), 1.45 (s, 9H, diast. A and B), 0.88 (m, 9H, diast. A and B), 0.10 (m, 6H, diast. A and B).

BA.ii. (3RS)-3-(tert-butyl-dimethyl-silanyloxy)-(4RS)-4-hydroxy-5-(3-oxo-3,4-dihydro-2H-benzo[1,4]thiazin-6-ylamino)-pentanoic acid tert-butyl ester:

A solution of intermediate BA.i (6.05 g) and 6-amino-4*H*-benzo[1,4]thiazin-3-one (3.60 g) in EtOH/water (9:1; 100 mL) was refluxed for 30 h. The org. solvent was removed under reduced pressure and the residue was taken up in EA (20 mL) and filtered. The filtrate was concentrated under reduced pressure and purified by CC (Hept/EA 1:1 to 1:2), affording after trituration in EA/ether, a colourless solid (3.26 g; 34% yield).
MS (ESI, m/z): 483.2 [$M+H^+$].

BA.iii. (3RS)-3-(tert-butyl-dimethyl-silanyloxy)-3-[((5RS)-2-oxo-3-(3-oxo-3,4-dihydro-2H-benzo[1,4]thiazin-6-yl))-oxazolidin-5-yl]-propionic acid tert-butyl ester:

Starting from intermediate BA.ii (3.25 g) and following procedure I, the title compound was obtained as a colourless solid (3.27 g; 95% yield).
MS (ESI, m/z): 509.1 [$M+H^+$].

BA.iv. 6-{5-[(1RS)-1-(tert-butyl-dimethyl-silanyloxy)-3-hydroxy-propyl]-((5RS)-2-oxo-oxazolidin-3-yl)}-4H-benzo[1,4]thiazin-3-one:

Starting from intermediate BA.iii (1.01 g) and following procedure A, the title compound was obtained, after CC (Hept/EA 2:1 then 0:1), as a colourless foam (205 mg; 23% yield).
MS (ESI, m/z): 439.1 [$M+H^+$].

Preparation BB: *(R)*-6-amino-7-fluoro-2-methoxy-5,6-dihydro-pyrrolo[1,2,3-de]quinoxalin-3-one:

BB.i. 6-fluoro-2,3-dimethoxy-quinoxaline-5-carbaldehyde:

A solution of tetramethylpiperidine (16.4 mL) in dry THF (100 mL) was cooled to -78°C and treated dropwise with *n*-BuLi (2.5*M* in Hex; 39 mL). The solution was further stirred at -78°C for 30 min. A solution of 6-fluoro-2,3-dimethoxy-quinoxaline (15.6 g; prepared from the commercially available 2,3-dichloro-6-fluoroquinoxaline according to *Egyptian Journal of Chemistry* (1980), Volume Date 1977, 20, 427-39) in dry THF (450 mL) was cooled to -78°C, treated dropwise with the first solution and further stirred at -78°C for 30 min. The resulting reaction mixture was treated with DMF (11.56 mL) and further stirred at -78°C for 15 min. The reaction mixture was poured onto a mixture of a sat.

NH_4Cl solution and ice and extracted with ether. The org. layer was washed with brine, dried over $MgSO_4$, evaporated under reduced pressure and crystallised from Hex/EA affording a light yellow solid (12.5 g; 71% yield).

^1H NMR ($CDCl_3$) δ: 11.10 (d, J = 0.6 Hz, 1H), 7.96 (dd, J = 9.1, 5.3 Hz, 1H), 7.30 (m, 1H), 4.19 (m, 3H), 4.15 (m, 3H).

BB.ii. 6-fluoro-2,3-dimethoxy-5-vinyl-quinoxaline:

A suspension of methyltriphenylphosphonium bromide (18.15 g) in THF (200 mL) was treated with tBuOK (5.7 g). After stirring for 1 h, the solution was cooled to 0°C and treated with a solution of intermediate BB.i (10.0 g) in THF (100 mL). The reaction mixture was further stirred at rt for 3 h and sequentially washed with water and with a sat. NH_4Cl solution. The org. layer was dried over $MgSO_4$, evaporated and purified by CC (Hex/EA 4:1 to 2:1), affording a colourless solid (8.80 g; 89% yield).

^1H NMR ($CDCl_3$) δ: 7.62 (dd, J = 8.8, 5.3 Hz, 1H), 7.46 (m, 1H), 7.25 (m, 1H), 6.34 (m, 1H), 5.69 (m, 1H), 4.17 (s, 3H), 4.13 (s, 3H).

BB.iii. (S)-1-(6-fluoro-2,3-dimethoxy-quinoxalin-5-yl)-ethane-1,2-diol:

Starting from intermediate BB.ii (8.70 g) and using procedure L with AD-mix α, the title compound was obtained as a beige solid (5.60 g; 56% yield) after crystallization from ether.

^1H NMR (DMSO d6) δ: 7.67 (dd, J = 9.1, 5.6 Hz, 1H), 7.35 (dd, J = 10.3, 9.1 Hz, 1H), 5.56 (m, 1H), 5.20 (d, J = 6.4 Hz, 1H), 4.73 (t, J = 6.2 Hz, 1H), 4.05 (s, 3H), 4.01 (s, 3H), 3.87 (m, 1H), 3.69 (m, 1H).

BB.iv. (S)-2-(tert-butyl-dimethyl-silanyloxy)-1-(6-fluoro-2,3-dimethoxy-quinoxalin-5-yl)-ethanol:

Starting from intermediate BB.iii (5.50 g) and using procedure M, the title compound was obtained, after purification by CC (Hept/EA 2:1), as a yellow oil (7.40 g; 94% yield).

MS (ESI, m/z): 383.2 [$M+H^+$].

BB.v. [(R)-2-(tert-butyl-dimethyl-silanyloxy)-1-(6-fluoro-2,3-dimethoxy-quinoxalin-5-yl)-ethyl]-carbamic acid tert-butyl ester:

Starting from intermediate BB.iv (7.30 g) and using procedure N', the title compound was obtained, after purification by CC (Hept/EA 9:1 t 4:1), as a yellow oil (6.7 g, 73% yield).
^{1}H NMR ($CDCl_3$) δ: 7.66 (dd, J = 9.1, 5.6 Hz, 1H), 7.23 (m, 1H), 6.50 (m, 1H), 4.17 (s, 3H), 4.13 (s, 3H), 3.92 (d, J = 6.4 Hz, 2H), 1.42 (s, 9H), 0.76 (s, 9H), -0.09 (s, 3H), -0.14 (s, 3 H).

BB.vi. [(R)-1-(6-fluoro-2,3-dimethoxy-quinoxalin-5-yl)-2-hydroxy-ethyl]-carbamic acid tert-butyl ester:

Starting from intermediate BB.v (6.70 g) and using procedure J, the title compound was obtained, after crystallization from Hept/EA 1:1, as a courless solid (3.60 g; 70% yield).
^{1}H NMR ($CDCl_3$) δ: 7.69 (dd, J = 9.1, 5.6 Hz, 1H) 7.26 (m, 1H), 6.60 (m, 1H), 5.80 (m, 1H), 4.17 (s, 3H), 4.13 (s, 3H), 3.95 (m, 2H), 1.43 (s, 9H).

BB.vii. ((R)-7-fluoro-2-methoxy-3-oxo-5,6-dihydro-3H-pyrrolo[1,2,3-de]quinoxalin-6-yl)-carbamic acid tert-butyl ester:

Starting from intermediate BB.vi (3.50 g) and using procedure H, the intermediate mesylate was formed. The reaction mixture was further stirred at reflux for 12 h, cooled to rt, washed with water. The org. layer was dried over $MgSO_4$ and concentrated under reduced pressure affording a crude solid (2.70 g, 84% yield) containing the title compound in a 3:2 mixture with *(R)*-4-(6-fluoro-2,3-dimethoxy-quinoxalin-5-yl)-oxazolidin-2-one. The mixture was used without any further purification in the next step.

BB.viii. (R)-6-amino-7-fluoro-2-methoxy-5,6-dihydro-pyrrolo[1,2,3-de]quinoxalin-3-one:

Starting from intermediate BB.vii (2.70 g) and using procedure B, the title compound was obtained after purification by CC (EA/MeOH 9:1 containing 1% NH_4OH) as a colourless solid (469 mg; 25% yield).
MS (ESI, m/z): 236.2 [$M+H^+$].

Preparation BC: (*R*)-1-amino-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one:

The title compound was prepared in analogy to Preparation AS, using however AD-mix α in the second step.

The analytical data were identical with those of the compound of Preparation AS.

Preparation BD: toluene-4-sulfonic acid (*R*)-4-hydroxy-7-oxo-4,5-dihydro-7*H*-pyrrolo[3,2,1-*de*][1,5]naphthyridin-4-ylmethyl ester:

BD.i. 2-(6-methoxy-[1,5]naphthyridin-4-yl)-propane-1,3-diol:

A solution of 2-methoxy-8-methyl-1,5-naphthyridine (2.90 g; prepared according to WO 00/21948) in aq. formaldehyde (37%; 7.8 mL) was heated at 100°C for 3 days. After cooling to rt, the reaction mixture was concentrated to dryness and the residue was taken up in MeOH (10 mL) and concentrated again. The residue was purified by CC (DCM/MeOH/NH_4OH 1000:100:8) to give a colourless solid (2.78 g; 71% yield).

^{1}H NMR (DMSO-d_6) δ: 8.67 (d, J = 4.4 Hz, 1H), 8.22 (d, J = 9.1 Hz, 1H), 7.51 (d, J = 4.4 Hz, 1H), 7.22 (d, J = 9.1 Hz, 1H), 4.56 (m, 2H), 4.00 (m, 4H), 3.84 (m, 4H).

BD.ii. Acetic acid (S)-3-hydroxy-2-(6-methoxy-[1,5]naphthyridin-4-yl)-propyl ester:

A solution of intermediate BD.i (1.34 g) in vinyl acetate (10 mL) was treated with powdered 3Å molecular sieves (78 mg) and stirred at rt for 15 min under an atmosphere of nitrogen. Lipase acrylic resin from *Candida antarctica* (600 mg, Sigma L4777) was added and stirring was continued for 4 h at rt. The polymer bound enzyme was filtered off, the filter cake was rinsed with THF and the filtrate was concentrated. The residue was purified by CC (DCM/MeOH/NH_4OH 1000:25:2), affording a colourless oil (0.688 g; 44% yield).

^{1}H NMR ($CDCl_3$) δ: 8.72 (d, J = 4.7 Hz, 1H), 8.23 (d, J = 9.1 Hz, 1H), 7.46 (d, J = 4.7 Hz, 1H), 7.15 (d, J = 9.1 Hz, 1H), 4.64 (m, 2H), 4.24 (m, 1H), 4.08 (m, 5H), 2.05 (s, 3H).

BD.iii. Acetic acid (S)-7-oxo-4,5-dihydro-7H-pyrrolo[3,2,1-de][1,5]naphthyridin-4-ylmethyl ester:

A solution of intermediate BD.ii (2.05 g) in DCM (40 mL) was transformed into the corresponding mesylate using procedure H. After full consumption of the alcohol, DCE (40 mL) was added and the solution was further stirred at 60°C for 4 h. After cooling to rt, water was added and the two layers were decanted and the aq. layer was extracted once

more with DCM. The combined org. layers were concentrated to dryness. The residue was triturated with TBME, affording a grey solid (1.40 g; 77% yield).

^{1}H NMR ($CDCl_3$) δ: 8.53 (d, J = 4.7 Hz, 1H), 7.93 (d, J = 9.7 Hz, 1H), 7.34 (dd, J = 4.7, 0.9 Hz, 1H), 6.90 (d, J = 9.7 Hz, 1H), 4.57 (dd, J = 12.9, 9.4 Hz, 1H), 4.37 (d, J = 6.4 Hz, 2H), 4.27 (dd, J = 13.2, 5.0 Hz, 1H), 4.09 (m, 1H), 2.06 (s, 3H).

BD.iv. (S)-4-hydroxymethyl-4,5-dihydro-pyrrolo[3,2,1-de][1,5]naphthyridin-7-one:

To a solution of intermediate BD.iii (1.11 g) in MeOH (30 mL), cooled to -10°C, K_2CO_3 (313 mg, 0.5 eq.) was added and the mixture was vigorously stirred at 0°C for 20 min. The mixture was concentrated and the residue was purified by CC (DCM/MeOH/NH_4OH 1000:100:8), affording a colourless solid (773 mg; 84% yield).

MS (ESI, m/z): 203.0 [$M+H^+$].

BD.v. Methanesulfonic acid (S)-7-oxo-4,5-dihydro-7H-pyrrolo[3,2,1-de][1,5]naphthyridin-4-ylmethyl ester:

A solution of intermediate BD.iv (600 mg) in DCM (30 mL) was transformed into the corresponding mesylate using procedure H. The crude material (1.03 g) was used in the next step without any further purification.

MS (ESI, m/z): 281.2 [$M+H^+$].

BD.vi. 4-methylene-4,5-dihydro-pyrrolo[3,2,1-de][1,5]naphthyridin-7-one:

A solution of intermediate BD.v (1.03 g) in DMF (10 mL) was stirred at rt in the presence of DBU (1.12 mL) for 2 h. The reaction mixture was diluted with EA and water. The aq. layer was extracted with EA (2 x 100 mL) and DCM/MeOH (3 x 50 mL; 9:1). The combined org. layers were sequentially washed with water and brine and dried over $MgSO_4$. The solvent was evaporated under reduced pressure, affording a yellow solid (490 mg; 72% yield).

^{1}H NMR ($CDCl_3$) δ: 8.55 (d, J = 5.0 Hz, 1H), 7.96 (d, J = 9.7 Hz, 1H), 7.44 (d, J = 5.0 Hz, 1H), 6.92 (d, J = 9.7 Hz, 1H), 6.00 (td, J = 2.9, 0.9 Hz, 1H), 5.65 (td, J = 2.6, 0.9 Hz, 1H), 5.02 (t, J = 2.6 Hz, 2H).

BD.vii. (R)-4-hydroxy-4-hydroxymethyl-4,5-dihydro-pyrrolo[3,2,1-de][1,5]naphthyridin-7-one:

A solution of intermediate BD.vi (240 mg) was dihydroxylated in presence of AD-mix α using procedure L. The crude yellow solid (216 mg; 76% yield) was used in the next step without any further purification.

^{1}H NMR ($CDCl_3$) δ: 8.55 (d, J = 4.7 Hz, 1H), 7.90 (m, 1H), 7.53 (d, J = 4.7 Hz, 1H), 6.81 (m, 1H), 4.35 (m, 2H), 3.89 (m, 3H).

BD.viii. Toluene-4-sulfonic acid (R)-4-hydroxy-7-oxo-4,5-dihydro-7H-pyrrolo[3,2,1-de][1,5]naphthyridin-4-ylmethyl ester:

A solution of intermediate BD.vii (210 mg) was stirred at rt overnight in presence of TEA (0.20 mL), TsCl (185 mg) and dibutyltin oxide (12 mg). The reaction mixture was diluted with water (3 mL). The org. layer was washed with sat. $NaHCO_3$ and brine and dried over $MgSO_4$. The solvent was evaporated under reduced pressure, affording an off-white solid (172 mg; 48% yield).

MS (ESI, m/z): 373.0 [$M+H^+$].

Preparation BE: *rac*-1-amino-9-bromo-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one:

BE.i. (7-bromo-2-methoxy-quinolin-8-yl)-methanol:

A suspension of 7-bromo-8-bromomethyl-2-(methyloxy)quinoline (35.2 g; prepared according to WO 2007/081597; containing 20% of debrominated compound) in acetone/water (1:1; 860 mL) was refluxed for 6 h in presence of $NaHCO_3$ (14.63 g). The org. solvent was removed under reduced pressure and the residue was extracted with EA. The org. layer was washed with brine and dried over Na_2SO_4. The solvent was then evaporated and the residue was crystallized from TBDME, affording an off-white solid (16.0 g; 56% yield).

MS (ESI, m/z): 268.0 [$M+H^+$].

BE.ii. 7-bromo-2-methoxy-quinoline-8-carbaldehyde:

A solution of oxalyl chloride (9.47 mL) in DCM (200 mL) was cooled to -78°C and treated dropwise with a solution of DMSO (9.52 mL) in DCM (80 mL). After stirring for 15 min, the solution was treated with a solution of intermediate BE.i (10.0 g) in DCM (80 mL).

After further stirring at -78°C for 3 h, the reaction mixture was treated dropwise with a solution of TEA (39.0 mL) in DCM (80 mL) over 1 h. The reaction mixture was further stirred for 40 min and allowed to reach rt. The reaction mixture was than treated with a sat. $NaHCO_3$ solution. The org. layer was separated and washed with brine, dried over Na_2SO_4. The solvent was evaporated and the residue was dissolved in EA and filtered through a pad of silica gel, affording a pale yellow solid (3.74 g; 38% yield).

^{1}H NMR (DMSO-d_6) δ: 11.06 (s, 1H), 8.36 (d, J = 8.8 Hz, 1H), 8.04 (d, J = 8.8 Hz, 1H), 7.74 (m, 1H), 7.17 (d, J = 8.8 Hz, 1H), 4.01 (s, 4H).

BE.iii. 7-bromo-2-methoxy-8-vinyl-quinoline:

To a solution of methyltriphenylphosphonium bromide (1.00 g) in THF (8 mL) cooled to -78°C was added *n*-BuLi (2.5*M* in Hex, 1.09 mL, 1.5 eq.). The mixture was stirred 15 min at this temperature and then 45 min at 0°C before cooling again to -78°C. A solution of intermediate BE.ii (500 mg) in THF (8 mL) was quickly added. The reaction proceeded overnight with gradual warming to rt. MeOH was added to quench the reaction and the mixture was concentrated under reduced pressure. The residue was purified by CC (Hept/EA 4:1 to 2:1), affording the title compound as a yellowish oil (411 mg; 83% yield).

MS (ESI, m/z): 264.3 [$M+H^+$].

BE.iv. rac-1-(7-bromo-2-methoxy-quinolin-8-yl)-ethane-1,2-diol:

Starting from intermediate BE.iii (5.50 g) and proceeding in analogy to Preparation AX, step AX.ii, using however K_2OsO_4/NMO instead of AD-mix β and omitting the use of methylsulfonamide, the title compound was obtained as a beige solid (5.75 g, 93% yield) after crystallization from TBDME.

^{1}H NMR ($CDCl_3$) δ: 8.01 (d, J = 9.1 Hz, 1H) , 7.58 (m, 1H), 7.50 (m, 1H), 6.97 (m, 1H), 5.53 (m, 1H), 4.07 (s, 3H), 3.91 (m, 2H).

BE.v. rac-1-(7-bromo-2-methoxy-quinolin-8-yl)-2-(tert-butyl-dimethyl-silanyloxy)-ethanol:

Starting from intermediate BE.iv (5.70 g) and using procedure M, the title compound was obtained as a brown oil (7.79 g, 99% yield).

^{1}H NMR ($CDCl_3$) δ: 7.97 (d, J = 8.8 Hz, 1H), 7.55 (m, 1H), 7.45 (m, 1H), 6.93 (d, J = 8.8 Hz, 1H), 5.54 (t, J = 5.6 Hz, 1H), 4.12 (m, 1H), 4.04 (s, 3H), 3.98 (m, 1H), 0.75 (m, 9H), -0.14 (d, J = 0.9 Hz, 6H).

BE.vi. rac-1-(7-bromo-2-methoxy-quinolin-8-yl)-2-(tert-butyl-dimethyl-silanyloxy)-ethylamine:

Starting from intermediate BE.v (7.75 g), the title compound was prepared in analogy to Preparation Z, step Z.iv. A yellow oil (2.6 g; 33% yield) was obtained.
MS (ESI, m/z): 411.3 [$M+H^+$].

BE.vii. rac-[1-(7-bromo-2-methoxy-quinolin-8-yl)-2-(tert-butyl-dimethyl-silanyloxy)-ethyl]-carbamic acid tert-butyl ester:

Starting from intermediate BE.vi (2.60 g) and using procedure G, the title compound was obtained as a yellow oil (3.20 g, 99% yield).
^{1}H NMR ($CDCl_3$) δ: 7.95 (d, J = 9.1 Hz, 1H), 7.55 (m, 1H), 7.44 (m, 1H), 6.92 (d, J = 9.1 Hz, 1H), 6.35 (m, 1H), 4.97 (m, 1H), 4.06 (m, 3H), 4.03 (m, 1H), 3.74 (m, 1H), 1.25 (m, 9H), 0.75 (s, 9H), -0.11 (s, 6H).

BE.viii. rac-[1-(7-bromo-2-methoxy-quinolin-8-yl)-2-hydroxy-ethyl]-carbamic acid tert-butyl ester:

Starting from intermediate BE.vii (3.20 g) and using procedure J, the title compound was obtained as an off-white solid (1.70 g, 68% yield).
^{1}H NMR ($CDCl_3$) δ: 7.98 (d, J = 9.1 Hz, 1H), 7.60 (m, 1H), 7.49 (m, 1H), 6.96 (d, J = 8.8 Hz, 1H), 5.92 (m, 1H), 4.08 (m, 4H), 4.03 (m, 2H), 1.44 (s, 9H).

BE.ix. rac-(9-bromo-4-oxo-1,2-dihydro-4H-pyrrolo[3,2,1-ij]quinolin-1-yl)-carbamic acid tert-butyl ester:

Starting from intermediate BE.viii (400 mg) and using the same procedure as for the preparation of intermediate Z.vi, the title compound was obtained as a yellow solid (372 mg, 100% yield).
^{1}H NMR ($CDCl_3$) δ: 7.67 (d, J = 9.4 Hz, 1H) , 7.32 (m, 2H), 6.68 (m, 1H), 5.58 (m, 1H), 4.97 (m, 1H), 4.64 (m, 1H), 4.32 (m, 1H), 1.24 (m, 9H).
MS (ESI, m/z): 365.3 [$M+H^+$].

BE.x. rac-1-amino-9-bromo-1,2-dihydro-pyrrolo[3,2,1-ij]quinolin-4-one:

Starting from intermediate BE.ix (100 mg) and using procedure B, the title compound was obtained as an off-white solid (52 mg, 72% yield).

^{1}H NMR ($CDCl_3$) δ: 7.67 (d, J = 9.7 Hz, 1H), 7.33 (m, 2H), 6.68 (d, J = 9.7 Hz, 1H), 4.89 (dd, J = 8.8, 3.5 Hz, 1H), 4.62 (dd, J = 13.5, 8.5 Hz, 1H), 4.17 (dd, J = 13.5, 3.8 Hz, 1H), 1.80 (m, 2H).

Preparation BF: (*R*)-1-amino-4-oxo-1,2-dihydro-4*H*-pyrrolo[3,2,1-*ij*]quinoline-7-carboxylic acid ethyl ester:

BF.i. 2-methoxy-8-vinyl-quinoline-5-carboxylic acid ethyl ester:

A solution of vinylboronic anhydride pyridine complex (1:1; 3.81 g) in DMF (240 mL) was treated with tetrakis(triphenylphosphine)palladium(0) (731 mg) and stirred under nitrogen for 20 min. The reaction mixture was sequentially treated with K_2CO_3 (4.372 g) water (73 mL) and 2-methoxy-8-[[(trifluoromethyl)sulfonyl]oxy]-5-quinoline carboxylic acid ethyl ester (12.0 g; prepared in analogy to the corresponding *n*-butyl ester described in WO 2006/046552) and further stirred at 85°C overnight. The reaction mixture was diluted with water and extracted with ether. The org. layer was dried over $MgSO_4$, concentrated to dryness and purified by CC (Hex/EA, 4:1), affording a yellow oil (5.40 g; 66% yield).

^{1}H NMR ($CDCl_3$) δ: 9.20 (d, J = 9.1 Hz, 1H), 8.08 (dd, J = 7.9, 0.6 Hz, 1H), 7.96 (dd, J = 18.2, 11.1 Hz, 1H), 7.86 (d, J = 7.9 Hz, 1H), 7.02 (d, J = 9.4 Hz, 1H), 6.05 (dd, J = 18.2, 1.5 Hz, 1H), 5.54 (dd, J = 11.1, 1.5 Hz, 1H), 4.45 (q, J = 7.3 Hz, 2H), 4.10 (s, 3H), 1.45 (t, J = 7.0 Hz, 3 H).

BF.ii. 8-((S)-1,2-dihydroxy-ethyl)-2-methoxy-quinoline-5-carboxylic acid ethyl ester:

A solution of intermediate BF.i (5.40 g) was dihydroxylated in the presence of AD-mix α using procedure L. After crystallization from ether, the product was obtained as a white solid (4.30 g; 70% yield; enantiomeric excess not checked, assumed 100%).

^{1}H NMR (DMSO d6) δ: 9.05 (d, J = 9.4 Hz, 1H), 8.04 (m, 1H), 7.87 (d, J = 7.9 Hz, 1H), 7.15 (d, J = 9.4 Hz, 1H), 5.66 (m, 1H), 5.35 (m, 1H), 4.67 (m, 1H), 4.37 (q, J = 7.0 Hz, 2H), 4.00 (s, 3H), 3.79 (m, 1H), 3.43 (m, 1H), 1.35 (t, J = 7.3 Hz, 3H)

BF.iii. 8-[(S)-2-(tert-butyl-dimethyl-silanyloxy)-1-hydroxy-ethyl]-2-methoxy-quinoline-5-carboxylic acid ethyl ester:

Starting from intermediate BF.ii (4.20 g) and using procedure M, the title intermediate was obtained as a yellow oil (5.48 g; 94% yield).

MS (ESI, m/z): 406.2 [$M+H^+$].

BF.iv. 8-[(R)-1-tert-butoxycarbonylamino-2-(tert-butyl-dimethyl-silanyloxy)-ethyl]-2-methoxy-quinoline-5-carboxylic acid ethyl ester:

A solution of intermediate BF.iii (5.30 g) and PPh_3 (4.11 g) in THF (130 mL) was cooled to 0°C and treated dropwise with DPPA (3.4 mL) and DIAD (3.36 mL). The reaction mixture was stirred at 0°C for 15 min than at rt for 1.5 h. The reaction mixture was evaporated to dryness and purified by CC (Hept/EA 2:1), affording the intermediate azide as a yellow oil (6.0 g). The latter was dissolved in THF/water (9:1; 50 mL), treated with PPh_3 (4.1 g) and stirred at 50°C for 1.5 h. The reaction mixture was then reacted with Boc_2O (5.7 g) and further stirred at rt over the weekend. The reaction mixture was concentrated under reduced pressure and purified by CC (Hept/EA 9:1 to 4:1), affording a yellow oil (9.20 g; contaminated by remaining Boc_2O).

^1H NMR ($CDCl_3$) δ: 9.21 (d, J = 9.4 Hz, 1H), 8.05 (d, J = 7.9 Hz, 1H), 7.59 (d, J = 7.6 Hz, 1H), 7.01 (d, J = 9.4 Hz, 1H), 5.64 (t, J = 4.7 Hz, 1H), 4.44 (q, J = 7.0 Hz, 2H), 4.07 (m, 5H), 1.50 (m, 3H), 1.44 (s, 9H), 0.76 (s, 9H), -0.23 (m, 6H).

BF.v. 8-((R)-1-tert-butoxycarbonylamino-2-hydroxy-ethyl)-2-methoxy-quinoline-5-carboxylic acid ethyl ester:

Starting from intermediate BF.iv (6.56 g) and using procedure J, the title intermediate was obtained as a colourless solid (2.60 g; 51% yield).

^1H NMR ($CDCl_3$) δ: 9.22 (d, J = 9.4 Hz, 1H), 8.06 (d, J = 7.6 Hz, 1H), 7.62 (d, J = 7.9 Hz, 1H), 7.04 (d, J = 9.4 Hz, 1H), 5.55 (m, 1H), 4.44 (q, J = 7.3 Hz, 2H), 4.03 (m, 5H), 1.44 (s, 9H).

BF.vi. (R)-1-tert-butoxycarbonylamino-4-oxo-1,2-dihydro-4H-pyrrolo[3,2,1-ij]quinoline-7-carboxylic acid ethyl ester:

Starting from intermediate BF.v (2.40 g) and using procedure H, the title intermediate was obtained as a colourless solid after trituration in ether (2.10 g; 95% yield).

MS (ESI, m/z): 359.2 [M+H$^+$].

BF.vii. (R)-1-amino-4-oxo-1,2-dihydro-4H-pyrrolo[3,2,1-ij]quinoline-7-carboxylic acid ethyl ester:

Starting from intermediate BF.vi (1.00 g) and using procedure B, the title compound was obtained as a beige solid (690 mg; 96% yield).
MS (ESI, m/z): 259.2 [M+H$^+$].

Preparation BG: *(R)*-1-amino-7-hydroxymethyl-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one:

BG.i. ((R)-7-hydroxymethyl-4-oxo-1,2-dihydro-4H-pyrrolo[3,2,1-ij]quinolin-1-yl)-carbamic acid tert-butyl ester:

Starting from intermediate BF.vi (250 mg) and using procedure A, the title intermediate was obtained as a yellowish solid after trituration in ether (190 mg; 86% yield).
MS (ESI, m/z): 317.2 [M+H$^+$].

BG.ii. (R)-1-aAmino-7-hydroxymethyl-1,2-dihydro-pyrrolo[3,2,1-ij]quinolin-4-one:

Starting from intermediate BG.i (180 mg) and using procedure B, the title compound was isolated from the water phase after evaporation to dryness and suspension in DCM/MeOH (9:1), affording 400 mg of a beige solid (contaminated by inorganic salts). The material was used without any further purification in the next steps.
^{1}H NMR (DMSO d6) δ: 8.10 (d, J = 9.7 Hz, 1H), 7.65 (d, J = 7.6 Hz, 1H), 7.27 (d, J = 7.6 Hz, 1H), 6.61 (d, J = 9.7 Hz, 1H), 5.41 (m, 1H), 5.19 (m, 1H), 4.79 (m, 2H), 4.55 (dd, J = 13.5, 8.5 Hz, 1H), 4.22 (dd, J = 13.5, 3.2 Hz, 1H), 4.07 (ddd, J = 3.2, 2.1, 0.9 Hz, 1H).

Preparation BH: *(R)*-1-amino-7-dimethylaminomethyl-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one:

BH.i. ((R)-7-formyl-4-oxo-1,2-dihydro-4H-pyrrolo[3,2,1-ij]quinolin-1-yl)-carbamic acid tert-butyl ester:

A solution of intermediate BG.i (640 mg) in DCM/THF (40 mL; 2:1) was stirred in the presence of MnO_2 (3.75 g) for 30 min. The reaction mixture was filtered through Celite®

and the filtrate was evaporated to dryness. The residue was triturated in ether/Hept, affording a yellow solid (480 mg; 75% yield).

^{1}H NMR ($CDCl_3$) δ: 10.19 (s, 1H), 8.84 (d, J = 9.7 Hz, 1H), 7.69 (m, 2H), 6.81 (d, J = 9.7 Hz, 1H), 5.66 (m, 1H), 5.11 (m, 1H), 4.74 (dd, J = 13.8, 9.1 Hz, 1H), 4.25 (m, 1H), 1.45 (m, 9H).

BH.ii. ((R)-7-dimethylaminomethyl-4-oxo-1,2-dihydro-4H-pyrrolo[3,2,1-ij]quinolin-1-yl)-carbamic acid tert-butyl ester:

Starting from intermediate BH.i (200 mg) and $NHMe_2$ (0.11 mL; 5.6*M* in EtOH) and using procedure E, the title intermediate was obtained as a yellow solid (140 mg; 64% yield).

MS (ESI, m/z): 344.6 [M+H$^+$].

BH.iii. (R)-1-amino-7-dimethylaminomethyl-1,2-dihydro-pyrrolo[3,2,1-ij]quinolin-4-one:

Starting from intermediate BH.ii (140 mg) and using procedure B, the title compound was obtained as an orange oil (74 mg; 76% yield).

MS (ESI, m/z): 244.3 [M+H$^+$].

Preparation BI: *(R)*-1-amino-7-pyrrolidin-1-ylmethyl-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one:

BI.i. ((R)-4-oxo-7-pyrrolidin-1-ylmethyl-1,2-dihydro-4H-pyrrolo[3,2,1-ij]quinolin-1-yl)-carbamic acid tert-butyl ester:

Starting from intermediate BH.i (200 mg) and pyrrolidine (52 µL) and using procedure E, the title intermediate was obtained as a yellow solid (190 mg; 80% yield).

MS (ESI, m/z): 370.4 [M+H$^+$].

BI.ii. (R)-1-amino-7-pyrrolidin-1-ylmethyl-1,2-dihydro-pyrrolo[3,2,1-ij]quinolin-4-one:

Starting from intermediate BI.i (190 mg) and using procedure B, the title compound was obtained as an orange oil (100 mg; 72% yield).

MS (ESI, m/z): 269.9 [M+H$^+$].

Preparation BJ: 3-[*(S)*-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-pyrido[3,2-*b*][1,4]oxazin-6-yl)-oxazolidin-5-yl]-propionaldehyde:

The title compound was prepared in analogy to Preparation AR, starting however from *(S)*-2-[2-[[(*tert*-butyl)dimethylsilyl]oxy]propyl]-oxirane. The yields were similar and the analytical data (MS, ^{1}H NMR) were identical.

Preparation BK: 3-[*(R)*-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-pyrido[3,2-*b*][1,4]thiazin-6-yl)-oxazolidin-5-yl]-propionaldehyde:

BK.i. (2-tert-butoxycarbonylamino-6-chloro-pyridin-3-ylsulfanyl)-acetic acid ethyl ester:

A solution of TMEDA (1.677 mL) in THF (20 mL) was cooled to -20°C and treated dropwise with 2.3*M* *n*-BuLi (4.75 mL). After stirring at this temperature for 20 min, the solution was cooled to -78°C and treated dropwise with a solution of 2-*tert*-butoxycarbonylamino-6-chloropyridine (1.14 g; commercial) in THF (7.5 mL). The solution was further stirred at this temperature for 1 h and treated with sulfur (S8). After further stirring at this temperature for 20 min the reaction mixture was treated with ethyl bromoacetate (0.86 mL). After further stirring for 2 h at -78°C, the temperature was allowed to reach -45°C and quenched by the addition of EA and water. The org phase was sequentially washed with 1N HCl, conc. NH_4Cl solution and brine. The org. phase was dried over $MgSO_4$ and the solvents were evaporated. The residue was purified by CC (Hept/EA 4:1 to 2:1), affording a colourless oil (1.05 g; 60% yield).

^{1}H NMR ($CDCl_3$) δ: 8.01 (s, 1H), 7.79 (d, J = 8.2 Hz, 1H), 6.98 (d, J = 8.2 Hz, 1H), 4.14 (q, J = 7.0 Hz, 3H), 3.47 (s, 2H), 1.54 (s, 12H), 1.22 (t, J = 7.0 Hz, 3H).

BK.ii. 6-chloro-4H-pyrido[3,2-b][1,4]thiazin-3-one:

A solution of intermediate BK.i (1.0 g) in DCM (6 mL) was stirred at rt overnight in the presence of TFA (6 mL). The reaction mixture was evaporated to dryness and the residue was dissolved in EtOH and refluxed for 2 days. The reaction mixture was evaporated to dryness and the residue was taken up in EA and a sat. aq. $NaHCO_3$ solution. The org. layer was washed with brine, dried over $MgSO_4$, concentrated under reduced pressure and crystallized from ether/Hept, affording a yellow solid (400 mg; 69% yield).

^{1}H NMR ($CDCl_3$) δ: 8.28 (d, J = 1.5 Hz, 1H), 7.57 (dd, J = 8.2, 0.6 Hz, 1H), 6.98 (d, J = 8.2 Hz, 1H), 3.50 (m, 2H).

BK.iii. 6-{(R)-5-[3-(tert-butyl-dimethyl-silanyloxy)-propyl]-2-oxo-oxazolidin-3-yl}-4H-pyrido[3,2-b][1,4]thiazin-3-one:

A vial was charged with intermediate BK.ii (2 g), palladium(II)acetate (224 mg), DPEphos (1.08 g), potassium phosphate tribasic (powdered; 4.33 g) and intermediate AR.ii (3.1 g). Dioxane (dry, over molecular sieves, 50 mL) was then added using a syringe and the resulting suspension was sparged with argon for 5 min. The mixture was then heated in a sealed flask at 80°C overnight. The residue was extracted with EA/water. The org. layer was washed with brine, dried over $MgSO_4$ and concentrated. The residue was purified by CC (Hept/EA 2:1, 1:1) affording a yellowish solid (3.58 g; 84% yield).

^{1}H NMR (DMSO d6) δ: 10.81 (s, 1H), 7.77 (m, 1H), 7.66 (m, 1H), 4.71 (m, 1H), 4.20 (m, 1H), 3.69 (dd, J = 10.5, 7.3 Hz, 1H), 3.62 (t, J = 6.4 Hz, 2H), 3.51 (s, 2H), 1.74 (m, 2H), 1.56 (dd, J = 9.4, 7.3 Hz, 2H), 0.85 (m, 9H), 0.02 (s, 6H).

BK.iv. 6-[(R)-5-(3-hydroxy-propyl)-2-oxo-oxazolidin-3-yl]-4H-pyrido[3,2-b][1,4]thiazin-3-one:

Starting from intermediate BK.iii (3.58 g) and using procedure J, the title intermediate was obtained as a colourless solid (2.0 g; 76% yield).

^{1}H NMR (DMSO d6) δ: 10.83 (s, 1H), 7.77 (m, 1H), 7.66 (m, 1H), 4.70 (m, 1H), 4.48 (t, J = 5.3 Hz, 1 H), 4.20 (m, 1 H), 3.70 (dd, J = 10.3, 7.0 Hz, 1 H), 3.51 (s, 2 H), 3.43 (q, J = 6.2 Hz, 2H), 3.28 (s, 3H), 1.75 (m, 2H), 1.51 (m, 2H).

BK.v. ***3-[(R)-2-oxo-3-(3-oxo-3,4-dihydro-2H-pyrido[3,2-b][1,4]thiazin-6-yl)-oxazolidin-5-yl]-propionaldehyde****:*

Starting from intermediate BK.iv (250 mg) and using the procedure of Preparation U, step U.iv, the title compound was obtained as a colourless solid (200 mg; 80% yield).

MS (ESI, m/z): 308.3 [$M+H^+$].

Preparation BL: 3-[(*S*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-pyrido[3,2-*b*][1,4]thiazin-6-yl)-oxazolidin-5-yl]-propionaldehyde:

The title compound was prepared in analogy to Preparation BK, starting however from *(S)*-2-[2-[[(*tert*-butyl)dimethylsilyl]oxy]propyl]-oxirane. The yields were similar and the analytical data (MS, ^{1}H NMR) were identical.

Preparation BM: *(R)*-4-amino-3-fluoro-4,5-dihydro-pyrrolo[3,2,1-*de*][1,5]naphthyridin-7-one:

BM.i. rac-1-(3-fluoro-6-methoxy-[1,5]naphthyridin-4-yl)-ethane-1,2-diol:

Starting from intermediate Ax.i (12.75 g) and proceeding in analogy to Preparation AX, step AX.ii, using however K_2OsO_4/NMO instead of AD-mix β and omitting the use of methylsulfonamide, the title compound was isolated as a light brown solid (9.80 g; 66% yield).

MS (ESI, m/z): 238.4 [$M+H^+$].

BM.ii. rac-2-(tert-butyl-dimethyl-silanyloxy)-1-(3-fluoro-6-methoxy-[1,5]naphthyridin-4-yl)-ethanol:

Starting from intermediate BM.i (12.35 g) and using procedure M, the title intermediate was obtained as a brown oil (18.85 g; 100% yield).

MS (ESI, m/z): 353.4 [$M+H^+$].

BM.iii. rac-8-[1-azido-2-(tert-butyl-dimethyl-silanyloxy)-ethyl]-7-fluoro-2-methoxy-[1,5]naphthyridine:

Starting from intermediate BM.ii (18.85 g) and using procedure N, the title intermediate was obtained as an orange oil (22.2 g; contaminated with PPh_3O).

^1H NMR ($CDCl_3$) δ: 8.66 (d, J = 1.5 Hz, 1H), 8.20 (d, J = 9.1 Hz, 1H), 7.11 (d, J = 9.1 Hz, 1H), 5.85 (m, 1H), 4.36 (m, 1H), 4.11 (m, 3H), 4.04 (m, 1H), 0.87 (s, 9H), 0.06 (d, J = 8.8 Hz, 6H).

BM.iv. rac-2-azido-2-(3-fluoro-6-methoxy-[1,5]naphthyridin-4-yl)-ethanol:

Starting from intermediate BM.iii (20.0 g) and using procedure J, the title intermediate was obtained as a yellowish solid (13.76 g; 99% yield).

^1H NMR ($CDCl_3$) δ: 8.69 (m, 1H), 8.23 (dd, J = 9.1, 0.9 Hz, 1H), 7.13 (d, J = 9.1 Hz, 1H), 5.92 (dd, J = 7.9, 4.7 Hz, 1H), 4.29 (m, 1H), 4.11 (m, 3H), 4.06 (d, J = 4.4 Hz, 1H), 1.25 (m, 1H).

BM.v. rac-4-azido-3-fluoro-4,5-dihydro-pyrrolo[3,2,1-de][1,5]naphthyridin-7-one:

Starting from intermediate BM.iv (17.75 g) and using procedure H, the title intermediate was obtained as an orange solid (7.94 g; 51% yield).

^{1}H NMR ($CDCl_3$) δ: 8.45 (m, 1H), 7.88 (m, 1H), 6.84 (m, 1H), 5.66 (dd, J = 8.5, 3.5 Hz, 1H), 4.62 (dd, J = 13.8, 8.5 Hz, 1H), 4.35 (dd, J = 13.8, 3.5 Hz, 1H).

BM.vi. (R)-4-amino-3-fluoro-4,5-dihydro-pyrrolo[3,2,1-de][1,5]naphthyridin-7-one:

A solution of intermediate BM.v (7.93 g) in THF (140 mL) was stirred at 60°C for 3 h in the presence of PPh_3 (9.90 g) and water (6.17 mL). The reaction mixture was concentrated to dryness and the residue was purified by CC (DCM/MeOH/NH_4OH 1000:50:4 to 1000:100:8) affording, after stirring in TBME, *(RS)*-4-amino-3-fluoro-4,5-dihydro-pyrrolo[3,2,1-*de*][1,5]naphthyridin-7-one (6.37 g; 91% yield). This racemic material (6.22 g) was separated by preparative chiral HPLC using a 5 µm (R,R)-Whelk-01 column (50 x 250 mm) eluting with 4:1 MeCN-EtOH containing 0.1% of diethylamine, with t_R = 5.21 min for the title compound (compound of Preparation BM) and t_R = 6.13 min for the optical antipode (compound of Preparation BN). The recovery was 3.00 g (first eluting enantiomer, compound of Preparation BM, 100% ee) and 2.92 g (second eluting enantiomer, compound of Preparation BN, 100% ee).

The absolute configuration of the title molecule was determined by X-ray analysis of the corresponding carboxamide obtained from *(S)*-mandelic acid.

MS (ESI, m/z): 206.1 [$M+H^+$]

Preparation BN: *(S)*-4-amino-3-fluoro-4,5-dihydro-pyrrolo[3,2,1-*de*][1,5]naphthyridin-7-one:

The title compound was obtained as the second eluting enantiomer (t_R = 6.13 min) at Preparation BM, step BM.vi.

MS (ESI, m/z): 206.1 [$M+H^+$].

Preparation BO: *rac*-1-amino-9-methyl-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one:

BO.i. (7-bromo-2-methoxy-quinolin-8-yl)-methanol:

A suspension of 7-bromo-8-bromomethyl-2-methoxyquinoline (35.2 g; prepared according to WO 2007/081597) and $NaHCO_3$ (14.63 g) in acetone (430 mL) and water (430 mL) was refluxed for 6 h. The org. solvent was removed under reduced pressure and the aq. layer was extracted twice with EA. The combined org. layers were sequentially washed with water and brine and dried over Na_2SO_4. The solvent was removed under reduced pressure and the residue was crystallized from TBDME, affording an off-white solid (16.01 g; 56% yield).

MS (ESI, m/z): 268.0 [$M+H^+$].

BO.ii. 7-bromo-2-methoxy-quinoline-8-carbaldehyde:

A solution of oxalyl chloride (5.68 mL) in DCM (265 mL) was cooled to -78°C and treated dropwise with a solution of DMSO (5.71 mL) in DCM (50 mL). The resulting solution was treated with a solution of intermediate BO.i (6.00 g) in DCM (50 mL). After stirring for 1 h at -78°C, the reaction mixture was treated with TEA (23.4 mL) in DCM (50 mL) and gradually allowed to reach rt. The reaction mixture was treated with sat. aq. $NaHCO_3$ (300 mL) and the org. layer was separated and dried over Na_2SO_4. The solvent was evaporated under reduced pressure and the crude material was stirred in TBME, affording a yellow solid (4.68 g; 79% yield; contaminated by traces of starting material).

MS (ESI, m/z): 266.0 [$M+H^+$].

BO.iii. 7-bromo-2-methoxy-8-vinyl-quinoline:

Starting from intermediate BO.ii (500 mg) and methyltriphenylphosphonium bromide (1.01 g) and proceeding in analogy to Preparation Z, step Z.i, the title compound was obtained a colourless solid (411 mg; 83% yield).

MS (ESI, m/z): 264.3 [$M+H^+$].

BO.iv. rac-1-(7-bromo-2-methoxy-quinolin-8-yl)-ethane-1,2-diol:

Starting from intermediate BO.iii (5.50 g) and proceeding in analogy to Preparation AX, step AX.ii, using however K_2OsO_4/NMO instead of AD-mix β and omitting the use of methylsulfonamide, the title compound was obtained as a beige solid (5.75 g; 93% yield).

^{1}H NMR (CDCl3) δ: 8.01 (d, J = 9.1 Hz, 1H) , 7.58 (m, 1H), 7.50 (m, 1H), 6.97 (m, 1H), 5.53 (m, 1H), 4.07 (m, 3H), 3.91 (m, 2H).

BO.v. rac-1-(7-bromo-2-methoxy-quinolin-8-yl)-2-(tert-butyl-dimethyl-silanyloxy)-ethanol:

Starting from intermediate BO.iv (5.71 g) and using procedure M, the title compound was obtained as a brown oil (7.79 g; 99% yield).

^{1}H NMR ($CDCl_3$) δ: 7.97 (d, J = 8.8 Hz, 1H), 7.55 (m, 1H), 7.45 (m, 1H), 6.93 (d, J = 8.8 Hz, 1H), 5.54 (t, J = 5.6 Hz, 1H), 4.12 (m, 1H), 4.04 (s, 3H), 3.98 (m, 1H), 0.75 (m, 9H), -0.14 (d, J = 0.9 Hz, 6H).

BO.vi. rac-8-[1-azido-2-(tert-butyl-dimethyl-silanyloxy)-ethyl]-7-bromo-2-methoxy-quinoline:

Starting from intermediate BO.v (7.75 g) and using Procedure N, the title intermediate was obtained as a yellow oil (8.47 g; 100% yield).

MS (ESI, m/z): 437.2 [$M+H^+$].

BO.vii. rac-1-(7-bromo-2-methoxy-quinolin-8-yl)-2-(tert-butyl-dimethyl-silanyloxy)-ethylamine:

Starting from intermediate BO.vi. (8.45 g) and proceeding in analogy to Preparation BM, step BM.vi, the title intermediate was obtained as a yellow oil (2.60 g; 33% yield).

MS (ESI, m/z): 411.3 [$M+H^+$].

BO.viii. rac-[1-(7-bromo-2-methoxy-quinolin-8-yl)-2-(tert-butyl-dimethyl-silanyloxy)-ethyl]-carbamic acid tert-butyl ester:

Starting from intermediate BO.vii (2.60 g) and using procedure G, the title intermediate was obtained as a yellow oil (3.20 g; 99% yield).

^{1}H NMR ($CDCl_3$) δ: 7.95 (d, J = 9.1 Hz, 1H), 7.55 (m, 1H), 7.44 (m, 1H), 6.92 (d, J = 9.1 Hz, 1H), 6.35 (m, 1H), 4.97 (m, 1H), 4.06 (m, 3H), 4.03 (m, 1H), 3.74 (m, 1H), 1.25 (m, 9H), 0.75 (s, 9H), -0.11 (s, 6H).

BO.ix. rac-[1-(7-bromo-2-methoxy-quinolin-8-yl)-2-hydroxy-ethyl]-carbamic acid tert-butyl ester:

Starting from intermediate BO.viii (3.20 g) and using procedure J, the title intermediate was obtained as an off-white solid (1.70 g; 68% yield).

MS (ESI, m/z): 396.9 [$M+H^+$].

BO.x. rac-(9-bromo-4-oxo-1,2-dihydro-4H-pyrrolo[3,2,1-ij]quinolin-1-yl)-carbamic acid tert-butyl ester:

Starting from intermediate BO.ix (400 mg) and using procedure H, the title intermediate was obtained as a yellow solid (372 mg; 100% yield).

MS (ESI, m/z): 365.3 [$M+H^+$].

BO.xi. rac-(9-methyl-4-oxo-1,2-dihydro-4H-pyrrolo[3,2,1-ij]quinolin-1-yl)-carbamic acid tert-butyl ester:

A solution of intermediate BO.x (90 mg) in DME (1.5 mL) was treated with tetrakis-(triphenylphosphine)palladium and the solution was purged with N_2. The solution was treated with K_2CO_3 (34 mg), water (0.5 mL) and trimethylboroxine (25 mg) and further stirred at 80°C overnight. The reaction mixture was diluted with water and extracted with EA. The org. layer was sequentially washed with water, brine and dried over $MgSO_4$. The solvent was removed under reduced pressure and the residue was purified by CC (EA), affording a colourless solid (82 mg; 100% yield).

MS (ESI, m/z): 301.2 [$M+H^+$].

BO.xii. rac-1-amino-9-methyl-1,2-dihydro-pyrrolo[3,2,1-ij]quinolin-4-one:

Starting from intermediate BO.xi. (81 mg) and using procedure B, the title compound was obtained as a grey solid (34 mg; 79% yield).

MS (ESI, m/z): 201.5 [$M+H^+$].

Preparation BP: *rac*-4-[2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-butyraldehyde:

BP.i. rac-6-[6-(tert-butyl-dimethyl-silanyloxy)-2-hydroxy-hexylamino]-4H-benzo[1,4]thiazin-3-one:

A solution of 2-[4-[(*tert*-butyl)dimethylsiloxy]butyl]oxirane (10.0 g) and 6-amino-4*H*-benzo[1,4]thiazin-3-one (7.81 g; commercial) in EtOH/water (300 mL; 9:1) was refluxed for 2 days. The solvents were removed under reduced pressure and the residue was taken up in EA/Hex (1:1; 100 mL) and filtered. The filtrate was concentrated under reduced pressure and purified by CC (EA/Hex; 1:1), affording an orange solid (7.40 g; 42% yield).

MS (ESI, m/z): 411.3 [$M+H^+$]

BP.ii. rac-6-{5-[4-(tert-Butyl-dimethyl-silanyloxy)-butyl]-2-oxo-oxazolidin-3-yl}-4H-benzo[1,4]thiazin-3-one:

Starting from intermediate BP.i (7.30 g) and using procedure I, the title intermediate was obtained as a colourless solid (4.40 g; 79% yield).

MS (ESI, m/z): 437.4 [$M+H^+$].

BP.iii. rac-6-[5-(4-hydroxy-butyl)-2-oxo-oxazolidin-3-yl]-4H-benzo[1,4]thiazin-3-one:

Starting from intermediate BP.ii (4.40 g) and using procedure J, the title intermediate was obtained as a colourless solid (3.00 g; 92% yield).

MS (ESI, m/z): 323.4 [$M+H^+$].

BP.iv. rac-4-[2-oxo-3-(3-oxo-3,4-dihydro-2H-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-butyraldehyde:

Starting from intermediate BP.iii (3.0 g) and using the procedure of Preparation U, step U.iv, the title intermediate was obtained as a colourless solid (2.30 g; 77% yield).

MS (ESI, m/z): 321.3 [$M+H^+$].

Preparation BQ: *rac*-(*1R*,2R)-1-amino-4-oxo-1,2-dihydro-4*H*-pyrrolo[3,2,1-*ij*]quinoline-2-carboxylic acid methyl ester:**

BQ.i. (E)-3-(2-methoxy-quinolin-8-yl)-acrylic acid methyl ester:

A solution of 8-bromo-2-methyloxyquinoline (10.0 g), $Pd(OAc)_2$ (311 mg), $P(o\text{-}Tol)_3$ (1.28 g) in DMF (100 mL) was treated with TEA (17.6 mL) and methyl acrylate (18.93 mL). The solution was purged 3 times with nitrogen and stirred at 120°C for 1 h. The reaction mixture was diluted with water (200 mL) and extracted with ether/EA. The org. layer was washed with water (3 x 200 mL) and brine and dried over $MgSO_4$. The solvent was removed under reduced pressure and the residue was purified by CC (Hept/EA 4:1), affording a pale yellow solid (9.34 g; 91% yield).

^1H NMR ($CDCl_3$) δ: 8.00 (d, J = 9.1 Hz, 1H), 7.66 (dd, J = 7.9, 1.5 Hz, 1H), 7.57 (d, J = 6.7 Hz, 1H), 7.36 (m, 1H), 6.92 (d, J = 8.8 Hz, 1H), 6.24-6.05 (m, 2H), 4.84 (m, 1H), 4.10 (s, 3H), 3.89 (d, J = 5.0 Hz, 1H), 3.78 (s, 3H), 1.43 (m, 9H).

BQ.ii. (2S,3R*)-3-tert-butoxycarbonylamino-2-hydroxy-3-(2-methoxy-quinolin-8-yl)-propionic acid methyl ester:*

A solution of *tert*-butyl carbamate (7.06 g) in *n*-propanol (120 mL) was sequentially treated with 0.4*M* NaOH (218 mL) and *tert*-butyl hypochlorite (10.6 mL; freshly prepared as described in *Org. Lett.* (2003), **5**(12), 2123-2126 (S-2)). The reaction mixture was treated with a solution of $(DHQD)_2PHAL$ (565 mg) and $(DHQ)_2PHAL$ (565 mg) in *n*-propanol (100 mL) and after 5 min cooled to 10°C and sequentially treated with a suspension of intermediate BQ.i. (7.07 g) in water/*n*-propanol (1:1; 140 mL) and potassium osmate(VI) dihydrate (428 mg). After stirring at +10°C for 20 min the reaction mixture was treated with Na_2SO_3 (15 g) and further stirred at rt for 10 min. The reaction mixture was extracted with EA and the org. layer was sequentially washed with 5% aq. K_2CO_3, sat. aq. $NaHCO_3$ and brine. After drying over $MgSO_4$ and evaporation of the solvent, the residue was purified by CC (DCM/MeOH 10-1 containing 1% NH_4OH), affording a pale yellow foam (6.85 g; 63% yield).

MS (ESI, m/z): 377.6 [$M+H^+$].

BQ.iii. rac-(1R,2R*)-1-tert-butoxycarbonylamino-4-oxo-1,2-dihydro-4H-pyrrolo[3,2,1-ij]quinoline-2-carboxylic acid methyl ester:*

Starting from intermediate BQ.ii (7.80 g) and using procedure H, the title intermediate was obtained as a colourless solid (6.24 g; 87% yield).

MS (ESI, m/z): 345.5 [$M+H^+$].

BQ.iv. rac-(1R,2R*)-1-amino-4-oxo-1,2-dihydro-4H-pyrrolo[3,2,1-ij]quinoline-2-carboxylic acid methyl ester:*

Starting from intermediate BQ.iii. (1.00 g) and using procedure B, the title compound was obtained as a colourless solid (684 mg; 96% yield).

MS (ESI, m/z): 245.2 [$M+H^+$].

Preparation BR: *rac-(1R*,2R*)*-1-amino-2-hydroxymethyl-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one:

BR.i. rac-((1R,2R*)-2-hydroxymethyl-4-oxo-1,2-dihydro-4H-pyrrolo[3,2,1-ij]quinolin-1-yl)-carbamic acid tert-butyl ester:*

Starting from intermediate BQ.iii (3.20 g) and using procedure A, the title intermediate was obtained as a colourless solid (2.67 g; 91% yield).

MS (ESI, m/z): 317.3 [$M+H^+$].

BR.ii. rac-(1R,2R*)-1-amino-2-hydroxymethyl-1,2-dihydro-pyrrolo[3,2,1-ij]quinolin-4-one:*

Starting from intermediate BR.i (600 mg) and using procedure B, the title compound was obtained as a colourless oil (400 mg; 98% yield).

MS (ESI, m/z): 217.3 [$M+H^+$].

Preparation BS: *rac-(1R*,2R*)*-1-amino-2-methoxymethyl-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one:

BS.i. rac-((1R,2R*)-2-methoxymethyl-4-oxo-1,2-dihydro-4H-pyrrolo[3,2,1-ij]quinolin-1-yl)-carbamic acid tert-butyl ester:*

A solution of intermediate BR.i (400 mg) in THF (anhydrous; 4 mL) was treated at 0°C with NaH (60% dispersion in oil; 51 mg). After a few min the reaction mixture was treated with MeI (83 µL) and further stirred at rt for 30 min. The reaction mixture was treated with sat. aq. NH_4Cl and extracted with EA. The org. layer was washed with water and brine and dried over $MgSO_4$. The solvent was evaporated under reduced pressure and the residue was purified by CC (DCM/MeOH/NH_4OH 1000:50:4), affording a pale yellow solid (42 mg; 10% yield).
MS (ESI, m/z): 331.2 [$M+H^+$].

BS.ii. rac-(1R,2R*)-1-amino-2-methoxymethyl-1,2-dihydro-pyrrolo[3,2,1-ij]quinolin-4-one:*

Starting from intermediate BS.i (42 mg) and using procedure B, the title compound was obtained as a pale yellow oil (28 mg; 96% yield).
MS (ESI, m/z): 231.2 [$M+H^+$].

Preparation BT: *rac*-(*1R*,2S)-1-amino-2-methyl-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one:**

BT.i. rac-((1R,2S*)-2-methyl-4-oxo-1,2-dihydro-4H-pyrrolo[3,2,1-ij]quinolin-1-yl)-carbamic acid tert-butyl ester:*

Starting from intermediate BR.i (800 mg) and using procedure H, the intermediate mesylate was formed and further reacted after usual work up. It was dissolved in DME (45 mL) and refluxed in presence of NaI (1.21 g). After 1.5 h the reaction mixture was treated with Bu_3SnH (3 mL) and further refluxed for 3 h. The reaction mixture was diluted in ether and stirred in presence of 8% aq. KF for 16 h. The mixture was filtered. The two phases were separated and the aq. layer was extracted with EA. The combined org. layers were washed with water and brine and dried over $MgSO_4$. The solvents were removed

under reduced pressure and the residue was purified by CC (Hept/EA 1:1), affording a colourless solid (476 mg; 63% yield).

MS (ESI, m/z): 301.3 [$M+H^+$].

BT.ii. rac-(1R,2S*)-1-amino-2-methyl-1,2-dihydro-pyrrolo[3,2,1-ij]quinolin-4-one:*

Starting from intermediate BT.i (467 mg) and using procedure B, the title compound was obtained as a yellow oil (274 mg; 88% yield).

MS (ESI, m/z): 201.3 [$M+H^+$].

Preparation BU: *rac-(1R*,2R*)*-1-amino-2-(1-hydroxy-1-methyl-ethyl)-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one:

BU.i. rac-[(1R,2R*)-2-(1-hydroxy-1-methyl-ethyl)-4-oxo-1,2-dihydro-4H-pyrrolo[3,2,1-ij]quinolin-1-yl]-carbamic acid tert-butyl ester:*

A solution BQ.iii (422 mg) in THF (anhydrous; 8 mL) was treated dropwise at 0°C with MeMgBr (1.4*M* in toluene/THF 3:1; 3.1 mL). After stirring 2 h at 0°C, the reaction mixture was allowed to reach rt and treated with MeMgBr (1.4*M* in toluene/THF 3:1; 5 mL). The reaction mixture was further stirred at rt overnight, quenched by the addition of sat. NH_4Cl solution and extracted with EA. The org. layer was sequentially washed with water and brine and dried over $MgSO_4$. The solvents were evaporated under reduced pressure and the residue was purified by CC (DCM/MeOH/NH_4OH 1000:50:4), affording a pale yellow foam (74 mg; 17% yield).

MS (ESI, m/z): 345.5 [$M+H^+$].

BU.ii. rac-(1R,2R*)-1-amino-2-(1-hydroxy-1-methyl-ethyl)-1,2-dihydro-pyrrolo[3,2,1-ij]quinolin-4-one:*

Starting from intermediate BU.i (74 mg) and using procedure B, the title compound was obtained as a brown oil (22 mg; 42% yield).

MS (ESI, m/z): 245.3 [$M+H^+$].

Preparation BV: *rac*-1-amino-4-oxo-1,2-dihydro-4*H*-pyrrolo[3,2,1-*ij*]quinoline-9-carbonitrile:

BV.i. rac-(9-cyano-4-oxo-1,2-dihydro-4H-pyrrolo[3,2,1-ij]quinolin-1-yl)-carbamic acid tert-butyl ester:

A mixture of intermediate BE.ix (135 mg), $Zn(CN)_2$ (52 mg) and $Pd(PPh_3)_4$ (21 mg) in DMF (2 mL) was heated at 110°C overnight under argon in a sealed flask. After cooling to rt, the reaction mixture was diluted with water and extracted with EA. The org. layer was washed with water and brine and dried over $MgSO_4$. The solvent was removed under reduced pressure and the residue was triturated in TBME, affording a pinkish solid (88 mg; 76% yield).

MS (ESI, m/z): 312.3 [$M+H^+$].

BV.ii. rac-1-amino-4-oxo-1,2-dihydro-4H-pyrrolo[3,2,1-ij]quinoline-9-carbonitrile:

Starting from intermediate BV.i (88 mg) and using procedure B, the title compound was obtained as a colourless solid (57 mg, 95% yield).

MS (ESI, m/z): 212.1 [$M+H^+$].

Preparation BW: methanesulfonic acid (*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-pyrido[3,2-*b*][1,4]thiazin-6-yl)-oxazolidin-5-ylmethyl ester:

BW.i. 6-[(R)-5-(tert-butyl-dimethyl-silanyloxymethyl)-2-oxo-oxazolidin-3-yl]-4H-pyrido[3,2-b][1,4]thiazin-3-one:

Starting from *(5R)*-5-[[[*tert*-butyldimethylsilyl]oxy]methyl]-2-oxazolidinone (1.20 g; prepared in according to *Org. Letters* (2005), **7**, 1983-1985) and intermediate BK.ii (867 mg), the title compound was prepared in analogy to the preparation of intermediate BK.iii. After work-up and CC (Hept/EA 1:1), a beige solid (1.20 g; 70% yield) was obtained.

^1H NMR ($CDCl_3$) δ: 7.90 (d, J = 8.5 Hz, 1H), 7.80 (s, 1H), 7.60 (d, J = 8.5 Hz, 1H), 4.67 (m, 1H), 4.11 (m, 2H), 3.90 (m, 1H), 3.78 (m, 1H), 3.48 (s, 2H), 0.84 (s, 9H), 0.07 (s, 6H).

BW.ii. 6-((R)-5-hydroxymethyl-2-oxo-oxazolidin-3-yl)-4H-pyrido[3,2-b][1,4]thiazin-3-one:

Starting from intermediate BW.i (1.20 g) and using procedure J, the title compound was obtained as a beige solid (880 mg; 100% yield).

MS (ESI, m/z):282.3 [$M+H^+$].

BW.iii. Methanesulfonic acid (R)-2-oxo-3-(3-oxo-3,4-dihydro-2H-pyrido[3,2-b][1,4]thiazin-6-yl)-oxazolidin-5-ylmethyl ester:

Starting from intermediate BW.ii (850 mg) and using procedure H, the title compound was obtained as a beige solid (850 mg; 78% yield).

^{1}H NMR (DMSO-d_6) δ: 10.88 (s, 1H), 7.79 (m, 1H), 7.66 (m, 1H), 5.00 (m, 1H), 4.50 (m, 2H), 4.21 (m, 1H), 3.86 (dd, J = 10.5, 6.2 Hz, 1H), 3.51 (s, 2H), 3.23 (s, 3H).

Preparation BX: methanesulfonic acid 2-[(*S*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-pyrido[3,2-*b*][1,4]thiazin-6-yl)-oxazolidin-5-yl]-ethyl ester:

BX.i. (S)-5-[2-(tert-butyl-dimethyl-silanyloxy)-ethyl]-oxazolidin-2-one:

Starting from 2-[2-[[(*tert*-butyl)dimethylsilyl]oxy]ethyl]-oxirane, (7.00 g; prepared according to WO 2007/144423), carbamic acid ethyl ester (1.46 g), 4-nitrobenzoic acid (347 mg), (*R,R*)-(salen)Co^{II} complex (626 mg) and NaH (1.676 g) and proceeding in analogy to *Org. Letters* (2005), **7**, 1983-1985, the title compound was obtained as a dark orange solid (880 mg; 11% yield).

^{1}H NMR (DMSO-d_6) δ: 7.39 (s, 1H), 4.59 (m, 1H), 3.67 (m, 2H), 3.53 (m, 1H), 3.13 (m, 1H), 1.79 (m, 2H), 0.85 (s, 9H), 0.02 (s, 6H).

BX.ii. 6-{(S)-5-[2-(tert-butyl-dimethyl-silanyloxy)-ethyl]-2-oxo-oxazolidin-3-yl}-4H-pyrido[3,2-b][1,4]thiazin-3-one:

Starting from intermediate BX.i (880 mg) and intermediate BK.ii (720 mg), the title compound was prepared in analogy to the preparation of intermediate BK.iii. After work-up and CC (Hept/EA 1:1), a beige solid (1.00 g; 68% yield) was obtained.

MS (ESI, m/z): 410.4 [$M+H^+$].

BX.iii. 6-[(S)-5-(2-hydroxy-ethyl)-2-oxo-oxazolidin-3-yl]-4H-pyrido[3,2-b][1,4]thiazin-3-one:

Starting from intermediate BX.ii (1.00 g) and using procedure J, the title compound was obtained as a colourless solid (640 mg; 89% yield).

MS (ESI, m/z): 296.4.3 [$M+H^+$].

BX.iv. Methanesulfonic acid 2-[(S)-2-oxo-3-(3-oxo-3,4-dihydro-2H-pyrido[3,2-b][1,4]thiazin-6-yl)-oxazolidin-5-yl]-ethyl ester:

Starting from intermediate BX.iii (600 mg) and using procedure H, the title compound was obtained as a beige solid (649 mg; 81% yield).

MS (ESI, m/z): 374.4 [$M+H^+$].

Preparation BY: *rac*-1-amino-9-chloro-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one:

BY.i. rac-(9-chloro-4-oxo-1,2-dihydro-4H-pyrrolo[3,2,1-ij]quinolin-1-yl)-carbamic acid tert-butyl ester:

A suspension of intermediate BE.ix (140 mg), CuCl (152 mg) and pyridine (0.5 mL) in dry DMSO was heated at 120°C for 1 h. After cooling to rt, the mixture was partitioned between 1*M* HCl and EA. The aq. layer was extracted with EA and the combined org. layers were sequentially washed with water, NH_4Cl, $NaHCO_3$, dried over $MgSO_4$ and concentrated under reduced pressure. The residue was purified by CC (DCM/MeOH/NH_4OH 1000:50:4), affording a pale orange solid (104 mg; 85% yield).

MS (ESI, m/z): 321.5 [$M+H^+$].

BY.ii. rac-1-amino-9-chloro-1,2-dihydro-pyrrolo[3,2,1-ij]quinolin-4-one:

Starting from intermediate BY.i (90 mg) and using procedure B, the title compound was obtained as an off-white solid (55 mg, 89% yield).

MS (ESI, m/z): 221.1 [$M+H^+$].

Preparation BZ: *rac*-1-amino-9-ethyl-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one:

BZ.i. rac-(4-oxo-9-trimethylsilanylethynyl-1,2-dihydro-4H-pyrrolo[3,2,1-ij]quinolin-1-yl)-carbamic acid tert-butyl ester:

$PdCl_2(PPh_3)_2$ (23 mg) and CuI (7.8 mg) were added to a suspension of intermediate BE.ix (300 mg) in TEA-dioxane (3 mL; 4:1). The reaction mixture was heated to 70°C and ethynyl-trimethyl-silane (0.14 mL) was added in one portion and the reaction mixture was further heated in a sealed glass vial at 100°C for 2 days. After cooling to rt, the mixture was partitioned between 1*M* HCl and DCM. The org. layer was sequentially washed with water, NH_4Cl, and $NaHCO_3$, dried over $MgSO_4$ and concentrated under reduced pressure. The residue was purified by CC (DCM/MeOH/NH_4OH 1000:50.4), affording a beige solid (132 mg; 42% yield).

MS (ESI, m/z): 383.4 [$M+H^+$].

BZ.ii. rac-(9-ethynyl-4-oxo-1,2-dihydro-4H-pyrrolo[3,2,1-ij]quinolin-1-yl)-carbamic acid tert-butyl ester:

A solution of intermediate BZ.i (115 mg) in THF (2 mL) was treated with TBAF (1*M* in THF; 0.33 mL) at rt. After 15 min, the mixture was concentrated, water was added and the mixture was extracted with DCM. The org. layer was dried over $MgSO_4$, filtered and concentrated. The residue was purified by CC (DCM/MeOH/NH_4OH 1000:50:4), affording a yellow solid (82 mg; 88% yield).

MS (ESI, m/z): 311.6 [$M+H^+$].

BZ.iii. rac-(9-ethyl-4-oxo-1,2-dihydro-4H-pyrrolo[3,2,1-ij]quinolin-1-yl)-carbamic acid tert-butyl ester:

A solution of intermediate BZ.ii (40 mg) in MeOH (1 mL) was hydrogenated over Pd/C for 2 h. The suspension was filtered using a glass fiber filter. The filter cake was washed with DCM/MeOH and the filtrate was concentrated under reduced pressure, affording a pale yellow solid (37 mg; 91% yield).

MS (ESI, m/z): 315.3 [$M+H^+$].

BZ.iv. rac-1-amino-9-ethyl-1,2-dihydro-pyrrolo[3,2,1-ij]quinolin-4-one:

Starting from intermediate BZ.iii. (30 mg) and using procedure B, the title compound was obtained as a colourless solid (13 mg, 64% yield).
MS (ESI, m/z): 215.5 [M+H$^+$].

Preparation CA: *rac*-1-amino-9-ethynyl-1,2-dihydro-pyrrolo[3,2,1-ij]quinolin-4-one:

Starting from intermediate BZ.ii (40 mg) and using procedure B, the title compound was obtained as a beige solid (20 mg, 74% yield).
MS (ESI, m/z): 211.3 [M+H$^+$].

Preparation CB: *rac*-(*1R*,2R)-1-amino-9-fluoro-4-oxo-1,2-dihydro-4*H*-pyrrolo[3,2,1-*ij*]quinoline-2-carboxylic acid methyl ester:**

CB.i. (2S,3R*)-3-tert-butoxycarbonylamino-2-hydroxy-3-(7-fluoro-2-methoxy-quinolin-8-yl)-propionic acid methyl ester:*

Starting from (*E*)-3-(7-fluoro-2-methoxy-quinolin-8-yl)-acrylic acid methyl ester (7.07 g; prepared in analogy to the corresponding *n*-butyl ester described in WO 2008/128953) and proceeding in analogy to the preparation of intermediate BQ.ii, the title compound was obtained as a light yellow semi-solid material (7.621 g; 84% yield).
MS (ESI, m/z): 395.4 [M+H$^+$].

CB.ii. rac-(1R,2R*)-1-tert-butoxycarbonylamino-9-fluoro-4-oxo-1,2-dihydro-4H-pyrrolo[3,2,1-ij]quinoline-2-carboxylic acid methyl ester:*

Starting from intermediate CB.i (4.60 g) and using procedure H, the title intermediate was obtained as a beige solid (81 mg; 19% yield).
MS (ESI, m/z): 363.4 [M+H$^+$].

CB.iii. rac-(1R,2R*)-1-amino-9-fluoro-4-oxo-1,2-dihydro-4H-pyrrolo[3,2,1-ij]quinoline-2-carboxylic acid methyl ester:*

Starting from intermediate CB.ii. (100 mg) and using procedure B, the title compound was obtained as a colourless solid (58 mg; 80% yield).
^{1}H NMR ($CDCl_3$) δ: 7.71 (dd, J = 9.4, 0.9 Hz, 1H), 7.49 (m, 1H), 6.92 (m, 1H), 6.63 (d, J = 9.4 Hz, 1H), 5.02 (m, 2H), 3.83 (d, J = 1.2 Hz, 3H).

Preparation CC: *rac*-(*1R*,2R)-1-amino-9-fluoro-2-hydroxymethyl-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one:**

CC.i. rac-((1R,2R*)-9-fluoro-2-hydroxymethyl-9-fluoro-4-oxo-1,2-dihydro-4H-pyrrolo[3,2,1-ij]quinolin-1-yl)-carbamic acid tert-butyl ester:*

Starting from intermediate CB.ii (200 mg) and using procedure A, the title intermediate was obtained as a colourless solid (112 mg; 61% yield).
MS (ESI, m/z): 335.4 [$M+H^+$].

CC.ii. rac-(1R,2R*)-1-amino-9-fluoro-2-hydroxymethyl-1,2-dihydro-pyrrolo[3,2,1-ij]quinolin-4-one:*

Starting from intermediate CC.i (104 mg) and using procedure B, the title compound was obtained as a colourless solid (60 mg; 82% yield).
MS (ESI, m/z): 235.1 [$M+H^+$].

Preparation CD: *rac*-(*1R*,2S)-1-amino-9-fluoro-2-methyl-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one:**

CD.i. rac-((1R,2S*)-9-fluoro-2-methyl-4-oxo-1,2-dihydro-4H-pyrrolo[3,2,1-ij]quinolin-1-yl)-carbamic acid tert-butyl ester:*

Starting from intermediate CC.i (495 mg) and using procedure H, the intermediate mesylate was formed and further reacted after usual work-up. It was dissolved in DME (25 mL) and refluxed in presence of NaI (710 mg). After 1.5 h, the reaction mixture was treated with Bu_3SnH (0.96 mL) and further refluxed for 3 h. The reaction mixture was diluted in ether and stirred in presence of 8% aq. KF for 16 h. The mixture was filtered. The two phases were separated and the aq. layer was extracted with EA. The combined org. layers were washed with water and brine and dried over $MgSO_4$. The solvents were removed under reduced pressure and the residue was purified by CC (Hept/EA 1:1 to 0:1), affording a colourless solid (374 mg; 79% yield).
MS (ESI, m/z): 319.3 [$M+H^+$].

CD.ii. rac-(1R,2S*)-1-amino-9-fluoro-2-methyl-1,2-dihydro-pyrrolo[3,2,1-ij]quinolin-4-one:*

Starting from intermediate CD.i (370 mg) and using procedure B, the title compound was obtained as a colourless solid (198 mg; 78% yield).

MS (ESI, m/z): 218.9 [$M+H^+$].

Preparation CE: *rac*-(*1R*,2R)-methanesulfonic acid 1-amino-9-fluoro-4-oxo-1,2-dihydro-4*H*-pyrrolo[3,2,1-*ij*]quinolin-2-ylmethyl ester:**

CE.i. rac-(1R,2R*)-methanesulfonic acid 1-tert-butoxycarbonylamino-9-fluoro-4-oxo-1,2-dihydro-4H-pyrrolo[3,2,1-ij]quinolin-2-ylmethyl ester:*

Starting from intermediate CC.i (200 mg) and using procedure H, the title compound was obtained as a yellow foam (285 mg; 100% yield).

MS (ESI, m/z): 413.3 [$M+H^+$].

CE.ii. rac-(1R,2R*)-methanesulfonic acid 1-amino-9-fluoro-4-oxo-1,2-dihydro-4H-pyrrolo[3,2,1-ij]quinolin-2-ylmethyl ester:*

Starting from intermediate CE.i (280 mg) and using procedure B, the title compound was obtained as a beige foam (140 mg; 77% yield).

MS (ESI, m/z): 313.5 [$M+H^+$].

Preparation CF: *(S)*-1-amino-9-fluoro-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one:

Intermediate C was separated by chiral prep. HPLC (Column: Daicel, ChiralPak IA, 20 x 250 mm; eluent: 5% EtOH in MeCN + 0.1% DEA; flow: 16.00 mL/min). The title compound was obtained as the first eluting compound (t_R = 7.36 min). The absolute stereochemistry was assigned based on the NMR of the corresponding Mosher amide.

MS (ESI, m/z): 205.2 [$M+H^+$].

Preparation CG: *(R)*-1-amino-9-fluoro-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one:

Intermediate C was separated by chiral prep. HPLC (Column: Daicel, ChiralPak IA, 20 x 250 mm; eluent: 5% EtOH in MeCN + 0.1% DEA; flow: 16.00 mL/min). The title

compound was obtained as the second eluting compound (t_R = 8.94 min). The absolute stereochemistry was assigned based on the NMR of the corresponding Mosher amide.
MS (ESI, m/z): 205.2 [$M+H^+$].

Preparation CH: methanesulfonic acid 2-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-pyrido[3,2-*b*][1,4]thiazin-6-yl)-oxazolidin-5-yl]-ethyl ester:

This intermediate was prepared in analogy to Preparation BX, steps BX.i to BX.iii, using however the (*S*,*S*)-(salen)Co^{II} complex.
The analytical data were identical with those of the compound of Preparation BX.

Preparation CI: (*RS*)-6-amino-7-fluoro-5,6-dihydro-pyrrolo[1,2,3-*de*]quinoxalin-3-one:

The title compound was prepared as described in Preparation AD, using however NMO and K_2OsO_4 as dihydroxylating agent (Cha, J.K., *Chem. Rev.* (1995), **95**, 1761-1795) in the first step.
The analytical data were identical with those of the compound of Preparation AD.

Example 1: (*1RS*)-9-fluoro-1-({2-[(*S*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]oxazin-6-yl)-oxazolidin-5-yl]-ethylamino}-methyl)-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one:

Starting from the compounds of Preparations A and H and using procedure C, the title compound was obtained as a pale yellow solid (39 mg; 18% yield).
^1H NMR (DMSO-d_6) δ: 10.71 (s, 1H), 7.89 (d, J = 9.4 Hz, 1H), 7.58 (m, 1H), 7.32 (m, 1H), 6.94 (m, 3H), 6.50 (d, J = 9.4 Hz, 1H), 4.67 (m, 1H), 4.53 (s, 2H), 4.36 (m, 2H), 4.00 (m, 2H), 3.67 (m, 1H), 3.02 (m, 1H), 2.74 (m, 3H), 2.04 (m, 1H), 1.81 (m, 2H).
MS (ESI, m/z): 479.3 [$M+H^+$].

Example 2: (*1RS*)-9-fluoro-1-({2-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]oxazin-6-yl)-oxazolidin-5-yl]-ethylamino}-methyl)-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one:

Starting from the compounds of Preparations A and I and using procedure C, the title compound was obtained as a pale yellow solid (35 mg; 16% yield).

^{1}H NMR (DMSO-d_6) δ: 10.71 (s, 1H), 7.88 (d, J = 9.4 Hz, 1H), 7.59 (dd, J = 8.8, 4.7 Hz, 1H), 7.32 (m, 1H), 6.96 (m, 3H), 6.50 (d, J = 9.4 Hz, 1H), 4.68 (m, 1H), 4.53 (s, 2H), 4.32 (m, 2H), 4.00 (m, 2H), 3.65 (m, 1H), 3.02 (m, 1H), 2.74 (m, 3H), 2.04 (m, 1H), 1.83 (m, 2H).

MS (ESI, m/z): 479.3 [M+H$^+$].

Example 3: (*1RS*)-9-fluoro-1-({2-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-ethylamino}-methyl)-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one:

Starting from the compounds of Preparations A and J and using procedure C, the title compound was obtained as an off-white solid (34 mg; 15% yield).

^{1}H NMR (DMSO-d_6) δ: 10.56 (s, 1H), 7.88 (d, J = 9.4 Hz, 1H), 7.59 (m, 1H), 7.32 (m, 2H), 7.01 (m, 2H), 6.50 (dd, J = 9.7, 0.9 Hz, 1H), 4.69 (m, 1H), 4.32 (m, 2H), 4.02 (m, 2H), 3.66 (m, 1H), 3.43 (s, 2H), 3.02 (m, 1H), 2.74 (m, 3H), 1.90 (m, 3H).

MS (ESI, m/z): 495.3 [M+H$^+$].

Example 4: (*1RS*)-9-fluoro-1-({2-[(*S*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-ethylamino}-methyl)-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one:

Starting from the compounds of Preparations A and K and using procedure D, the title compound was obtained as an off-white solid (79 mg; 35% yield).

^{1}H NMR (DMSO-d_6) δ: 10.55 (s, 1H), 7.88 (d, J = 9.7 Hz, 1H), 7.57 (m, 1H), 7.32 (m, 2H), 7.01 (m, 2H), 6.50 (dd, J = 9.4, 0.6 Hz, 1H), 4.69 (m, 1H), 4.34 (m, 2H), 4.03 (m, 2H), 3.66 (m, 1H), 3.42 (s, 2H), 3.02 (s, 1H), 2.72 (m, 3H), 1.99 (m, 1H), 1.84 (m, 2H).

MS (ESI, m/z): 495.3 [M+H$^+$].

Example 5: (*1RS*)-9-fluoro-1-({[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-ylmethyl]-amino}-methyl)-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one:

Starting from the compounds of Preparations A and N and using procedure D, the title compound was obtained as a yellow solid (31 mg; 37% yield).
MS (ESI, m/z): 481.1 [M+H$^+$].

Example 6: (*1RS*)-9-fluoro-1-({2-[(*RS*)-3-(3-fluoro-4-methyl-phenyl)-2-oxo-oxazolidin-5-yl]-ethylamino}-methyl)-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one:

Starting from the compounds of Preparations A and S and using procedure C, the title compound was obtained as a yellow solid (94 mg; 47% yield).
MS (ESI, m/z): 440.5 [M+H$^+$].

Example 7: (*1RS*)-1-(2-{[(*R*)-3-(2,3-dihydro-benzo[1,4]dioxin-6-yl)-2-oxo-oxazolidin-5-ylmethyl]-amino}-ethyl)-9-fluoro-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one:

Starting from the compounds of Preparations B and P and using procedure D, the title compound was obtained as a pale yellow solid (45 mg; 28% yield).
MS (ESI, m/z): 466.2 [M+H$^+$].

Example 8: (*1RS*)-9-fluoro-1-(2-{[(*S*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-ylmethyl]-amino}-ethyl)-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one:

Starting from the compounds of Preparations B and O and using procedure D, the title compound was obtained as a yellow solid (50 mg; 29% yield).
MS (ESI, m/z): 495.1 [M+H$^+$].

Example 9: (*1RS*)-9-fluoro-1-(2-{[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]oxazin-6-yl)-oxazolidin-5-ylmethyl]-amino}-ethyl)-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one:

Starting from the compounds of Preparations B and Q and using procedure C, the title compound was obtained as a pale yellow solid (47 mg; 20% yield).

MS (ESI, m/z): 479.2 [M+H$^+$].

Example 10: (*1RS*)-9-fluoro-1-(2-{[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-ylmethyl]-amino}-ethyl)-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one:

Starting from the compounds of Preparations B and N and using procedure D, the title compound was obtained as a pale yellow solid (38 mg; 16% yield).
MS (ESI, m/z): 494.9 [M+H$^+$].

Example 11: (*1RS*)-9-fluoro-1-(2-{[(*R*)-3-(3-fluoro-4-methyl-phenyl)-2-oxo-oxazolidin-5-ylmethyl]-amino}-ethyl)-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one:

Starting from the compounds of Preparations B and R and using procedure D, the title compound was obtained as a yellow solid (29 mg; 19% yield).
MS (ESI, m/z): 440.5 [M+H$^+$].

Example 12: (*1RS*)-9-fluoro-1-{3-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]oxazin-6-yl)-oxazolidin-5-yl]-propylamino}-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one:

Starting from the compounds of Preparations C and T and using procedure E, the title compound was obtained as a colourless solid (42 mg; 45% yield).
^{1}H NMR ($CDCl_3$) δ: 7.70 (d, J = 9.4 Hz, 1H), 7.47 (m, 1H), 7.32 (m, 1H), 6.92 (m, 2H), 6.76 (m, 1H), 6.62 (d, J = 9.4 Hz, 1H), 4.96 (m, 1H), 4.64 (m, 1H), 4.50 (m, 3H), 4.26 (m, 1H), 4.04 (m, 1H), 3.60 (m, 1H), 3.42 (m, 2H), 2.73 (m, 2H), 1.76 (m, 4H).
MS (ESI, m/z): 479.2 [M+H$^+$].

Example 13: (*1RS*)-9-fluoro-1-{3-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-propylamino}-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one:

Starting from the compounds of Preparations C and U and using procedure E, the title compound was obtained as a pale beige solid (48 mg; 50% yield).

^{1}H NMR ($CDCl_3$) δ: 7.69 (d, J = 9.7 Hz, 1H), 7.47 (dd, J = 8.5, 4.7 Hz, 1H), 7.35 (d, J = 2.3 Hz, 1H), 7.24 (m, 2H), 6.91 (m, 2H), 6.61 (d, J = 9.4 Hz, 1H), 4.95 (dd, J = 8.2, 3.2 Hz, 1H), 4.65 (m, 1H), 4.49 (dd, J = 13.5, 8.2 Hz, 1H), 4.26 (dd, J = 13.2, 3.5 Hz, 1H), 4.06 (m, 1H), 3.60 (m, 1H), 3.36 (s, 2H), 2.73 (m, 2H), 1.77 (m, 5H).

MS (ESI, m/z): 495.0 [$M+H^+$].

Example 14: (*1RS*)-9-fluoro-1-{2-[(*RS*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-ethylamino}-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one:

Starting from the compounds of Preparations C and M and using procedure C, the title compound was isolated as a pale yellow solid (13 mg; 12% yield).

^{1}H NMR ($CDCl_3$) δ: 8.76 (m, 1 H), 7.66 (d, J = 9.4 Hz, 1H), 7.44 (m, 2H), 7.24 (m, 1H), 6.91 (m, 2H), 6.61 (d, J = 9.7 Hz, 1H), 4.96 (m, 1H), 4.80 (m, 1H), 4.50 (m, 1H), 4.28 (m, 1H), 4.08 (m, 1H), 3.68 (m, 1H), 3.38 (s, 2H), 2.94 (m, 2H), 1.97 (m, 3H).

MS (ESI, m/z): 481.1 [$M+H^+$].

Example 15: (*4R*)-4-({2-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-ethylamino}-methyl)-4,5-dihydro-pyrrolo[3,2,1-*de*][1,5]naphthyridin-7-one:

Starting from the compounds of Preparations V and J and using procedure C, the title compound was obtained as a colourless solid (9 mg; 12% yield).

MS (ESI, m/z): 478.0 [$M+H^+$].

Example 16: (*4RS*)-3-fluoro-4-(2-{[(*S*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-ylmethyl]-amino}-ethyl)-4,5-dihydro-pyrrolo[3,2,1-*de*][1,5]naphthyridin-7-one:

Starting from the compounds of Preparations F and O and using procedure D, the title compound was obtained as a yellow solid (6 mg; 7% yield).

MS (ESI, m/z): 496.3 [$M+H^+$].

Example 17: (*4RS*)-3-fluoro-4-(2-{[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-ylmethyl]-amino}-ethyl)-4,5-dihydro-pyrrolo[3,2,1-*de*][1,5]naphthyridin-7-one:

Starting from the compounds of Preparations F and N and using procedure D, the title compound was obtained as a yellow solid (8 mg; 9% yield).
MS (ESI, m/z): 496.4 [M+H$^+$].

Example 18: (*4R*)-4-{3-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-propylamino}-4,5-dihydro-pyrrolo[3,2,1-*de*][1,5]naphthyridin-7-one:

Starting from the dihydrochloride salt of the compound of Preparation D (112 mg) and the compound of Preparation U (153 mg) and using procedure E, the title compound was obtained as an orange solid (27 mg; 11% yield).
MS (ESI, m/z): 478.1 [M+H$^+$].

Example 19: (*4R*)-4-{3-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]oxazin-6-yl)-oxazolidin-5-yl]-propylamino}-4,5-dihydro-pyrrolo[3,2,1-*de*][1,5]naphthyridin-7-one:

Starting from the dihydrochloride salt of the compound of Preparation D (78 mg) and the compound of Preparation T (101 mg) and using procedure E, the title compound was obtained as an orange solid (17 mg; 11% yield).
MS (ESI, m/z): 462.1 [M+H$^+$].

Example 20: (*6RS*)-6-{3-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-propylamino}-5,6-dihydro-pyrrolo[1,2,3-*de*]quinoxalin-3-one:

Starting from the compounds of Preparations G (93 mg) and U (153 mg) and using procedure E, the title compound was obtained as a yellow solid (210 mg; 88% yield).
MS (ESI, m/z): 478.0 [M+H$^+$].

Example 21: (*6RS*)-6-{3-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]oxazin-6-yl)-oxazolidin-5-yl]-propylamino}-5,6-dihydro-pyrrolo[1,2,3-*de*]quinoxalin-3-one:

Starting from the compounds of Preparations G and T and using procedure E, the title compound was obtained as a yellow solid (276 mg; 70% yield).

MS (ESI, m/z): 462.1 [M+H$^+$].

Example 22: (*1RS*)-9-fluoro-1-(2-{[(*S*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-ylmethyl]-amino}-ethyl)-1,2,5,6-tetrahydro-pyrrolo[3,2,1-*ij*]quinolin-4-one:

The compound of Example 8 was hydrogenated according to procedure F, affording a colourless solid (10 mg; 23% yield).
MS (ESI, m/z): 497.3 [M+H$^+$].

Example 23: (*1RS*)-9-fluoro-1-({2-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-ethylamino}-methyl)-1,2,5,6-tetrahydro-pyrrolo[3,2,1-*ij*]quinolin-4-one:

23.i. rac-(9-fluoro-4-oxo-1,2,5,6-tetrahydro-4H-pyrrolo[3,2,1-ij]quinolin-1-ylmethyl)-carbamic acid tert-butyl ester:

A solution of intermediate A.vii of Preparation A (47 mg, 0.15 mmol) in MeOH (5 mL) was hydrogenated over 10% Pd/C (31 mg) for 2 h. The catalyst was filtered off and washed with MeOH. The filtrate was concentrated to afford the title intermediate as a colourless solid (48 mg; 100% yield).
MS (ESI, m/z): 321.3 [M+H$^+$].

23.ii. rac-1-aminomethyl-9-fluoro-1,2,5,6-tetrahydro-pyrrolo[3,2,1-ij]quinolin-4-one:

Starting from intermediate 23.i and using procedure B, the title intermediate was obtained as a yellow solid (29 mg; 88% yield).
MS (ESI, m/z): 221.2 [M+H$^+$].

23.iii. (1RS)-9-fluoro-1-({2-[(R)-2-oxo-3-(3-oxo-3,4-dihydro-2H-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-ethylamino}-methyl)-1,2,5,6-tetrahydro-pyrrolo[3,2,1-ij]quinolin-4-one:

Starting from intermediate 23.ii and the compound of Preparation L and using procedure D, the title compound was obtained as a pale brown solid (8 mg; 14% yield).
MS (ESI, m/z): 497.4 [M+H$^+$].

Example 24: (*1RS*)-9-fluoro-1-(2-{[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-ylmethyl]-amino}-ethyl)-1,2,5,6-tetrahydro-pyrrolo[3,2,1-*ij*]quinolin-4-one:

The compound of Example 10 was hydrogenated using procedure F, affording the title compound as an off-white solid (8 mg; 16% yield).
MS (ESI, m/z): 497.2 [$M+H^+$].

Example 25: (*1RS*)-9-fluoro-1-(2-{[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]oxazin-6-yl)-oxazolidin-5-ylmethyl]-amino}-ethyl)-1,2,5,6-tetrahydro-pyrrolo[3,2,1-*ij*]quinolin-4-one:

The compound of Example 9 was hydrogenated using procedure F, affording the title compound as a colourless solid (12 mg; 32% yield).
MS (ESI, m/z): 481.2 [$M+H^+$].

Example 26: (*1RS*)-1-(2-{[(*R*)-3-(2,3-dihydro-benzo[1,4]dioxin-6-yl)-2-oxo-oxazolidin-5-ylmethyl]-amino}-ethyl)-9-fluoro-1,2,5,6-tetrahydro-pyrrolo[3,2,1-*ij*]quinolin-4-one:

The compound of Example 7 was hydrogenated using procedure F, affording the title compound as an off-white solid (21 mg; 52% yield).
MS (ESI, m/z): 468.2 [$M+H^+$].

Example 27: (*1RS*)-9-fluoro-1-(2-{[(*R*)-3-(3-fluoro-4-methyl-phenyl)-2-oxo-oxazolidin-5-ylmethyl]-amino}-ethyl)-1,2,5,6-tetrahydro-pyrrolo[3,2,1-*ij*]quinolin-4-one:

The compound of Example 11 was hydrogenated using procedure F, affording the title compound as an off-white solid (17 mg; 74% yield).
MS (ESI, m/z): 442.2 [$M+H^+$].

Example 28: (*4RS*)-3-fluoro-4-({2-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-ethylamino}-methyl)-4,5-dihydro-pyrrolo[3,2,1-*de*][1,5]naphthyridin-7-one:

Starting from the compounds of Preparations E and L and using procedure D, the title compound was obtained as a yellow solid (7 mg; 18% yield).
MS (ESI, m/z): 496.2 [$M+H^+$].

Example 29: (*1RS*)-9-fluoro-1-({2-[(*S*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-ethylamino}-methyl)-1,2,5,6-tetrahydro-pyrrolo[3,2,1-*ij*]quinolin-4-one:

The compound of Example 4 was hydrogenated using procedure F, affording the title compound as a colourless solid (17 mg; 39% yield).
MS (ESI, m/z): 497.2 [$M+H^+$].

Example 30: (*1RS*)-9-fluoro-1-({[(*S*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-ylmethyl]-amino}-methyl)-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one:

Starting from the compounds of Preparations A and O and using procedure D, the title compound was obtained as a yellow solid (49 mg; 37% yield).
MS (ESI, m/z): 481.2 [$M+H^+$].

Example 31: (*1RS*)-1-({[(*R*)-3-(2,3-dihydro-benzo[1,4]dioxin-6-yl)-2-oxo-oxazolidin-5-ylmethyl]-amino}-methyl)-9-fluoro-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one:

Starting from the compounds of Preparations A and P and using procedure D, the title compound was obtained as a yellow solid (33 mg; 27% yield).
MS (ESI, m/z): 452.2 [$M+H^+$].

Example 32: (*1RS*)-9-fluoro-1-({[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]oxazin-6-yl)-oxazolidin-5-ylmethyl]-amino}-methyl)-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one:

Starting from the compounds of Preparations A and Q and using procedure C, the title compound was obtained as a yellow solid (35 mg; 27% yield).
MS (ESI, m/z): 465.2 [M+H$^+$].

Example 33: (*1RS*)-9-fluoro-1-({[(*R*)-3-(3-fluoro-4-methyl-phenyl)-2-oxo-oxazolidin-5-ylmethyl]-amino}-methyl)-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one:

Starting from the compounds of Preparations A and R and using procedure D, the title compound was obtained as a yellow solid (17 mg; 15% yield).
MS (ESI, m/z): 426.2 [M+H$^+$].

Example 34: (*RS*)-4-({2-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-ethylamino}-methyl)-4,5-dihydro-pyrrolo[3,2,1-*de*][1,5]naphthyridin-7-one:

Starting from the compound of Preparations W and AF and using procedure C, the title compound was obtained as a beige solid (13 mg; 8% yield).
MS (ESI, m/z): 478.0 [M+H$^+$].

Example 35: (*RS*)-1-{3-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-propylamino}-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one:

Starting from the compounds of Preparations X and U and using procedure E, the title compound was obtained as a beige solid (30 mg; 24% yield).
MS (ESI, m/z): 476.9 [M+H$^+$].

Example 36: (*RS*)-1-({[(*R*)-3-(4-ethoxy-phenyl)-2-oxo-oxazolidin-5-ylmethyl]-amino}-methyl)-9-fluoro-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one:

Starting from the compound of Preparation A and (*5S*)-3-(4-ethoxyphenyl)-5-[[(methylsulfonyl)oxy]methyl]-2-oxazolidinone (prepared according to

WO 2008/126034) and using procedure C, the title compound was obtained as a yellow solid (44 mg; 27% yield).

MS (ESI, m/z): 472.3 [M+H$^+$].

Example 37: (*RS*)-9-fluoro-1-({[(*R*)-2-oxo-3-(4-propyl-phenyl)-oxazolidin-5-ylmethyl]-amino}-methyl)-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one:

Starting from the compounds of Preparations A and AG and using procedure C, the title compound was obtained as a yellow solid (46 mg; 29% yield).

MS (ESI, m/z): 436.1 [M+H$^+$].

Example 38: (*RS*)-1-({[(*R*)-3-(4-butyl-phenyl)-2-oxo-oxazolidin-5-ylmethyl]-amino}-methyl)-9-fluoro-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one:

Starting from the compounds of Preparations A and AH and using procedure C, the title compound was obtained as a yellow solid (36 mg; 22% yield).

MS (ESI, m/z): 450.1 [M+H$^+$].

Example 39: (*S*)-4-{3-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-propylamino}-4,5-dihydro-pyrrolo[3,2,1-*de*][1,5]naphthyridin-7-one:

Starting from the compounds of Preparations Y and U and using procedure E, the title compound was obtained as a beige solid (90 mg; 23% yield).

MS (ESI, m/z): 477.9 [M+H$^+$].

Example 40: (*S*)-4-{3-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]oxazin-6-yl)-oxazolidin-5-yl]-propylamino}-4,5-dihydro-pyrrolo[3,2,1-*de*][1,5]naphthyridin-7-one:

Starting from the compounds of Preparations Y and T and using procedure E, the title compound was obtained as a beige foam (55 mg; 15% yield).

MS (ESI, m/z): 461.9 [M+H$^+$].

Example 41: (*S*)-4-{2-[(*S*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-ethylamino}-4,5-dihydro-pyrrolo[3,2,1-*de*][1,5]naphthyridin-7-one:

Starting from the compounds of Preparations Y and AI and using procedure C, the title compound was obtained as a yellow solid (10 mg; 2% yield).

MS (ESI, m/z): 464.1 [$M+H^+$].

Example 42: (*RS*)-1-({2-[(*RS*)-3-(2,3-dihydro-[1,4]dioxino[2,3-*c*]pyridin-7-yl)-2-oxo-oxazolidin-5-yl]-ethylamino}-methyl)-9-fluoro-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one:

Starting from the compounds of Preparations A and AJ and using procedure C, the title compound was obtained as a yellow solid (48 mg; 34% yield).

MS (ESI, m/z): 467.1 [$M+H^+$].

Example 43: (*RS*)-1-({2-[(*RS*)-3-(2,3-dihydro-[1,4]dioxino[2,3-*b*]pyridin-6-yl)-2-oxo-oxazolidin-5-yl]-ethylamino}-methyl)-9-fluoro-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one:

Starting from the compounds of Preparations A and AK and using procedure C, the title compound was obtained as a yellow foam (42 mg; 30% yield).

MS (ESI, m/z): 467.1 [$M+H^+$].

Example 44: (*RS*)-1-({2-[(*R*)-3-(4-ethoxy-phenyl)-2-oxo-oxazolidin-5-yl]-ethylamino}-methyl)-9-fluoro-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one:

Starting from the compounds of Preparations A and AL and using procedure C, the title compound was obtained as a yellow foam (20 mg; 14% yield).

^1H NMR ($CDCl_3$) δ: 7.65 (dd, J = 9.4, 1.5 Hz, 1H), 7.38 (m, 3H), 6.87 (m, 3H), 6.60 (d, J = 9.7 Hz, 1H), 4.70 (m, 1H), 4.44 (m, 2H), 4.01 (m, 4H), 3.61 (td, J = 9.1, 7.3 Hz, 1H), 3.14 (m, 1H), 2.90 (m, 3H), 1.92 (m, 2H), 1.39 (t, J = 6.7 Hz, 3H).

MS (ESI, m/z): 452.1 [$M+H^+$].

Example 45: (*RS*)-9-fluoro-1-({2-[(*R*)-2-oxo-3-(4-propyl-phenyl)-oxazolidin-5-yl]-ethylamino}-methyl)-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one:

Starting from the compounds of Preparations A and AM and using procedure C, the title compound was obtained as a yellow foam (24 mg; 17% yield).

^{1}H NMR ($CDCl_3$) δ: 7.65 (dd, J = 9.7, 1.5 Hz, 1H), 7.39 (m, 3H), 7.16 (d, J = 8.5 Hz, 2H), 6.87 (td, J = 9.1, 1.8 Hz, 1H), 6.60 (d, J = 9.4 Hz, 1H), 4.72 (m, 1H), 4.44 (m, 2H), 4.02 (m, 2H), 3.64 (m, 1H), 3.14 (m, 1H), 2.90 (m, 3H), 2.55 (m, 2H), 1.91 (m, 2H), 1.61 (m, 2H), 0.92 (t, J = 7.3 Hz, 3H).

MS (ESI, m/z): 450.1 [$M+H^+$].

Example 46: (*RS*)-1-({2-[(*R*)-3-(2,3-dihydro-benzo[1,4]dioxin-6-yl)-2-oxo-oxazolidin-5-yl]-ethylamino}-methyl)-9-fluoro-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one:

Starting from the compounds of Preparations A and AN and using procedure C, the title compound was obtained as an off-white solid (32 mg; 21% yield).

^{1}H NMR ($CDCl_3$) δ: 7.64 (dd, J = 9.4, 1.2 Hz, 1H), 7.38 (dd, J = 8.8, 4.7 Hz, 1H), 7.03 (t, J = 2.3 Hz, 1H), 6.89 (m, 3H), 6.58 (d, J = 9.4 Hz, 1H), 4.68 (m, 1H), 4.48 (m, 1H), 4.36 (m, 1H), 4.22 (m, 4H), 3.97 (m, 2H), 3.56 (m, 1H), 3.12 (m, 1H), 2.88 (m, 3H), 1.90 (m, 2H).

MS (ESI, m/z): 466.0 [$M+H^+$].

Example 47: (*RS*)-9-fluoro-1-({2-[(*RS*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-pyrido[3,2-*b*][1,4]oxazin-6-yl)-oxazolidin-5-yl]-ethylamino}-methyl)-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one:

Starting from the compounds of Preparations A and AO and using procedure C, the intermediate (*RS*)-9-fluoro-1-[(2-{3-[(*RS*)-4-(4-methoxy-benzyl)-3-oxo-3,4-dihydro-2*H*-pyrido[3,2-*b*][1,4]oxazin-6-yl]-2-oxo-oxazolidin-5-yl}-ethylamino)-methyl]-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one was obtained as a yellowish foam (148 mg, 36% yield). Said intermediate was further treated with TFA (4 mL) at reflux for 3 days. The solvent was removed under reduced pressure and the residue was partitioned between DCM and aq. NH_4OH. The org. phase was washed with water and brine and dried over

$MgSO_4$. The residue was purified by CC (EA/MeOH 9:1 containing 1% NH_4OH), affording, after trituration in ether/MeOH, a beige solid (55 mg; 17% yield).
MS (ESI, m/z): 480.0 [$M+H^+$].

Example 48: (*S*)-6-{3-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-propylamino}-5,6-dihydro-pyrrolo[1,2,3-*de*]quinoxalin-3-one:

Starting from the compounds of Preparations Z and U and using procedure E, the title compound was obtained as a beige solid (135 mg; 53% yield).
^1H NMR (DMSO d6) δ: 10.54 (s, 1H), 8.17 (s, 1H), 7.70 (d, J = 7.9 Hz, 1H), 7.60 (d, J = 7.3 Hz, 1 H), 7.31 (m, 3H), 7.06 (dd, J = 8.5, 2.3 Hz, 1H), 4.70 (m, 2H), 4.44 (m, 1H), 4.07 (m, 2H), 3.62 (dd, J = 8.8, 7.3 Hz, 1H), 3.41 (s, 2H), 2.63 (m, 2H), 1.76 (m, 2H), 1.53 (m, 2 H).

Examples 49 and 50: (*S*)-9-fluoro-1-({2-[(*S*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-ethylamino}-methyl)-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one and (*R*)-9-fluoro-1-({2-[(*S*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-ethylamino}-methyl)-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one:

Starting from the compounds of Preparations A and AI and using procedure C, the title compounds were obtained as a light yellow solid (466 mg, 26%, mixture of diastereoisomers; MS (ESI, m/z): 495.1 [$M+H^+$]). This mixture (75 mg) was separated on a chiral HPLC column (ChiralPak IA, 4.6 x 250 mm, 5 µm; eluents: MeCN and EtOH containing 0.1% of DEA) affording the corresponding diastereoisomers:
First eluting compound (27 mg): ^1H NMR ($CDCl_3$) δ: 7.69 (d, J = 9.4 Hz, 1H), 7.41 (dd, J = 8.5, 4.4 Hz, 1H), 7.23 (m, 1H), 7.12 (m, 2H), 6.89 (t, J = 9.1 Hz, 1H), 6.62 (d, J = 9.7 Hz, 1H), 4.71 (m, 1H), 4.45 (m, 2H), 4.03 (m, 2H), 3.62 (m, 2H), 3.34 (s, 2H), 2.95 (m, 3H), 2.00 (m, 1H), 1.78 (m, 1H).
Second eluting compound (20 mg): ^1H NMR ($CDCl_3$) δ: 7.69 (d, J = 9.4 Hz, 1H), 7.41 (dd, J = 8.8, 4.4 Hz, 1H), 7.22 (m, 2H), 7.08 (dd, J = 8.5, 2.3 Hz, 1H), 6.89 (t, J = 9.1 Hz, 1H), 6.60 (d, J = 9.4 Hz, 1H), 4.62 (m, 1H), 4.48 (m, 1H), 4.35 (m, 1H), 3.96 (m, 2H), 3.71 (m, 1H), 3.34 (s, 2H), 3.10 (dd, J = 12.0, 4.4 Hz, 1H), 2.88 (m, 3H), 1.91 (m, 2H).

Example 51: (*RS*)-9-fluoro-1-({3-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-propylamino}-methyl)-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one:

Starting from the compounds of Preparations A and U and using procedure E, the title compound was obtained as a light yellow foam (69 mg; 59% yield).
MS (ESI, m/z): 509.2 [M+H$^+$].

Example 52: (*RS*)-9-fluoro-1-({3-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]oxazin-6-yl)-oxazolidin-5-yl]-propylamino}-methyl)-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one:

Starting from the compounds of Preparations A and T and using procedure E, the title compound was obtained as a light yellow foam (60 mg; 53% yield).
MS (ESI, m/z): 493.2 [M+H$^+$].

Example 53: (*RS*)-1-({2-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-ethylamino}-methyl)-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one:

Starting from the compounds of Preparations AB and AF and using procedure C, the title compound was obtained as a light yellow foam (10 mg; 8% yield).
MS (ESI, m/z): 476.9 [M+H$^+$].

Example 54: (*S*)-6-{2-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-ethylamino}-5,6-dihydro-pyrrolo[1,2,3-*de*]quinoxalin-3-one:

Starting from the compounds of Preparations Z and J and using procedure C, the title compound was obtained as an orange solid (30 mg, 14% yield).
MS (ESI, m/z): 464.1 [M+H$^+$].

Example 55: (*S*)-6-{2-[(*S*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-ethylamino}-5,6-dihydro-pyrrolo[1,2,3-*de*]quinoxalin-3-one:

Starting from the compounds of Preparation Z and intermediate K.iv and using procedure C, the title compound was obtained as an orange solid (50 mg; 20% yield).
MS (ESI, m/z): 464.3 [M+H$^+$].

Example 56: (*RS*)-6-({2-[(*S*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-ethylamino}-methyl)-5,6-dihydro-pyrrolo[1,2,3-*de*]quinoxalin-3-one:

Starting from the compounds of Preparations AC and AI and using procedure C, the title compound was obtained as a yellow foam (98 mg; 28% yield).

MS (ESI, m/z): 477.9 [M+H$^+$].

Example 57: (*S*)-7-fluoro-6-{3-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]oxazin-6-yl)-oxazolidin-5-yl]-propylamino}-5,6-dihydro-pyrrolo[1,2,3-*de*]quinoxalin-3-one:

Starting from the compounds of Preparations AD and T and using procedure E, the title compound was obtained as a colourless solid (70 mg; 29% yield).

MS (ESI, m/z): 480.1 [M+H$^+$].

Example 58: (*S*)-7-fluoro-6-{3-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-propylamino}-5,6-dihydro-pyrrolo[1,2,3-*de*]quinoxalin-3-one:

Starting from the compounds of Preparations AD and U and using procedure E, the title compound was obtained as a colourless solid (85 mg; 34% yield).

MS (ESI, m/z): 469.1 [M+H$^+$].

Example 59: *(RS)*-9-fluoro-1-{2-[*(R)*-2-oxo-3-(4-propyl-phenyl)-oxazolidin-5-yl]-ethylamino}-1,2-dihydro-pyrrolo[3,2,1-ij]quinolin-4-one:

Starting from the compounds of Preparations C and AM and using procedure C, the title compound was obtained as a yellow solid (46 mg; 31% yield).

^{1}H NMR ($CDCl_3$) δ: 7.68 (dd, J = 9.4, 0.9 Hz, 1H), 7.45 (m, 3H), 7.17 (d, J = 8.2 Hz, 2H), 6.92 (t, J = 8.8 Hz, 1H), 6.61 (d, J = 9.4 Hz, 1H), 4.99 (m, 1H), 4.78 (m, 1H), 4.52 (m, 1H), 4.31 (dd, J = 13.2, 3.2 Hz, 1H), 4.10 (t, J = 8.5 Hz, 1H), 3.69 (m, 1H), 2.95 (m, 2H), 2.56 (m, 2H), 2.02 (m, 2H), 1.62 (m, 2H), 0.92 (t, J = 7.3 Hz, 3H).

MS (ESI, m/z): 436.2 [M+H$^+$].

Example 60: (*RS*)-1-({2-[(*S*)-3-(2,3-dihydro-benzo[1,4]dioxin-6-yl)-2-oxo-oxazolidin-5-yl]-ethylamino}-methyl)-9-fluoro-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one:

Starting from the compounds of Preparations A and AQ and using procedure C, the title compound was obtained as a yellow foam (29 mg; 34% yield).

^{1}H NMR ($CDCl_3$) δ: 7.65 (dd, J = 9.7, 0.9 Hz, 1H), 7.39 (dd, J = 8.8, 4.7 Hz, 1H), 7.02 (t, J = 2.1 Hz, 1H), 6.87 (m, 3H), 6.58 (d, J = 9.4 Hz, 1H), 4.70 (m, 1H), 4.44 (m, 2H), 4.22 (m, 4H), 3.98 (m, 2H), 3.58 (m, 2H), 3.15 (m, 1H), 2.91 (m, 3H), 1.92 (m, 2H).

MS (ESI, m/z): 466.2 [$M+H^+$].

Example 61: (*RS*)-1-({2-[(*S*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-ethylamino}-methyl)-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one:

Starting from the compounds of Preparations AE and AI and using procedure C, the title compound was obtained as a beige solid (110 mg; 46% yield).

^{1}H NMR (DMSO d6) δ: 10.58 (s, 1H), 7.90 (d, J = 9.7 Hz, 1H), 7.54 (m, 2H), 7.32 (m, 2H), 7.18 (t, J = 7.9 Hz, 1H), 7.08 (m, 1H), 6.55 (d, J = 9.7 Hz, 1H), 4.81 (m, 1H), 4.39 (m, 2H), 4.08 (m, 3H), 3.72 (m, 1H), 3.42 (s, 3H), 3.05 (m, 4H), 2.12 (m, 2H).

MS (ESI, m/z): 476.8 [$M+H^+$].

Example 62: (*RS*)-1-({2-[(*S*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]oxazin-6-yl)-oxazolidin-5-yl]-ethylamino}-methyl)-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one:

Starting from the compounds of Preparations AE and H and using procedure C, the title compound was obtained as a beige solid (90 mg; 39% yield).

MS (ESI, m/z): 460.9 [$M+H^+$].

Example 63: (*RS*)-1-({[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-ylmethyl]-amino}-methyl)-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one:

Starting from the compounds of Preparations AE and N and using procedure D, the title compound was obtained as a beige solid (44 mg; 19% yield).

MS (ESI, m/z): 462.9 [$M+H^+$].

Example 64: (*R*)-6-{3-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-propylamino}-5,6-dihydro-pyrrolo[1,2,3-*de*]quinoxalin-3-one:

Starting from the compounds of Preparations AA and U and using procedure E, the title compound was obtained as an orange solid (100 mg; 42% yield).

MS (ESI, m/z): 477.8 [M+H$^+$].

Example 65: (*R*)-6-{3-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]oxazin-6-yl)-oxazolidin-5-yl]-propylamino}-5,6-dihydro-pyrrolo[1,2,3-*de*]quinoxalin-3-one:

Starting from the compounds of Preparations AA and T and using procedure E, the title compound was obtained as an orange solid (140 mg; 61% yield).

MS (ESI, m/z): 461.9 [M+H$^+$].

Example 66: (*S*)-7-fluoro-6-((2-hydroxy-ethyl)-{3-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-propyl}-amino)-5,6-dihydro-pyrrolo[1,2,3-*de*]quinoxalin-3-one:

Starting from the compound of Example 58 and (*tert*-butyldimethylsilyloxy)-acetaldehyde and using procedure E, followed by treatment of the intermediate thus obtained with aq. TFA (50%; 2 mL), the title compound was obtained as a colourless foam (45 mg; 40% yield).

MS (ESI, m/z): 539.9 [M+H$^+$].

Example 67: (*S*)-7-fluoro-6-((2-hydroxy-ethyl)-{3-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]oxazin-6-yl)-oxazolidin-5-yl]-propyl}-amino)-5,6-dihydro-pyrrolo[1,2,3-*de*]quinoxalin-3-one:

Starting from the compound of Example 57 and (*tert*-butyldimethylsilyloxy)-acetaldehyde and using procedure E, followed by treatment of the intermediate thus obtained with aq. TFA (50%; 2 mL), the title compound was obtained as a colourless foam (80 mg; 45% yield).

MS (ESI, m/z): 523.9 [M+H$^+$].

Example 68: (*RS*)-9-fluoro-1-(2-{(3-hydroxy-propyl)-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-ylmethyl]-amino}-ethyl)-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one:

68.i. (RS)-1-(2-{[3-(tert-butyl-dimethyl-silanyloxy)-propyl]-[2-oxo-3-(3-oxo-3,4-dihydro-2H-benzo[1,4]thiazin-6-yl)-oxazolidin-5-ylmethyl]-amino}-ethyl)-9-fluoro-1,2-dihydro-pyrrolo[3,2,1-ij]quinolin-4-one:

Starting from the compound of Example 10 and 3-(*tert*-butyldimethylsilyloxy)-propionaldehyde and using procedure E, the title compound was obtained as a colourless solid (101 mg; 75% yield).

MS (ESI, m/z): 667.4 [$M+H^+$].

68.ii. (RS)-9-fluoro-1-(2-{(3-hydroxy-propyl)-[(R)-2-oxo-3-(3-oxo-3,4-dihydro-2H-benzo[1,4]thiazin-6-yl)-oxazolidin-5-ylmethyl]-amino}-ethyl)-1,2-dihydro-pyrrolo[3,2,1-ij]quinolin-4-one:

Starting from intermediate 68.i and using procedure J, the title compound was obtained as an off-white solid (70 mg; 87% yield).

MS (ESI, m/z): 553.2 [$M+H^+$].

Example 69: (*RS*)-9-fluoro-1-(2-{(2-hydroxy-ethyl)-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-ylmethyl]-amino}-ethyl)-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one:

69.i. (RS)-1-(2-{[2-(tert-butyl-dimethyl-silanyloxy)-ethyl]-[2-oxo-3-(3-oxo-3,4-dihydro-2H-benzo[1,4]thiazin-6-yl)-oxazolidin-5-ylmethyl]-amino}-ethyl)-9-fluoro-1,2-dihydro-pyrrolo[3,2,1-ij]quinolin-4-one:

Starting from the compound of Example 10 and *tert*-butyldimethylsilyloxy-acetaldehyde and using procedure E, the title compound was obtained as a colourless solid (100 mg; 76% yield).

MS (ESI, m/z): 653.4 [$M+H^+$].

69.ii. (RS)-9-fluoro-1-(2-{(2-hydroxy-ethyl)-[(R)-2-oxo-3-(3-oxo-3,4-dihydro-2H-benzo[1,4]thiazin-6-yl)-oxazolidin-5-ylmethyl]-amino}-ethyl)-1,2-dihydro-pyrrolo[3,2,1-ij]quinolin-4-one:

Starting from intermediate 69.i and using procedure J, the title compound was obtained as an off-white solid (54 mg; 69% yield).
MS (ESI, m/z): 539.2 [$M+H^+$].

Example 70: (*RS*)-9-fluoro-1-{3-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-pyrido[3,2-*b*][1,4]oxazin-6-yl)-oxazolidin-5-yl]-propylamino}-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one:

Starting from the compounds of Preparations C and AR and using procedure E, the title compound was obtained as a colourless solid (175 mg; 73% yield).
MS (ESI, m/z): 480.0 [$M+H^+$].

Example 71: (*S*)-7-fluoro-6-{3-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-pyrido[3,2-*b*][1,4]oxazin-6-yl)-oxazolidin-5-yl]-propylamino}-5,6-dihydro-pyrrolo[1,2,3-*de*]quinoxalin-3-one:

Starting from the compounds of Preparations AD and AR and using procedure E, the title compound was obtained as a colourless solid (87 mg; 36% yield).
MS (ESI, m/z): 481.1 [$M+H^+$].

Example 72: (*S*)-1-{3-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-propylamino}-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one:

Starting from the compounds of Preparations AS and U and using procedure E, the title compound was obtained as a colourless solid (223 mg; 72% yield).
MS (ESI, m/z): 477.2 [$M+H^+$].

Example 73: (*S*)-1-{3-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]oxazin-6-yl)-oxazolidin-5-yl]-propylamino}-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one:

Starting from the compounds of Preparations AS and T and using procedure E, the title compound was obtained as a colourless solid (259 mg; 87% yield).

MS (ESI, m/z): 461.2 [M+H$^+$].

Example 74: (*S*)-1-{3-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-pyrido[3,2-*b*][1,4]oxazin-6-yl)-oxazolidin-5-yl]-propylamino}-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one:

Starting from the compounds of Preparations AS and AR and using procedure E, the title compound was obtained as a colourless solid (190 mg; 83% yield).
MS (ESI, m/z): 462.2 [M+H$^+$].

Example 75: (*R*)-6-{3-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-pyrido[3,2-*b*][1,4]oxazin-6-yl)-oxazolidin-5-yl]-propylamino}-5,6-dihydro-pyrrolo[1,2,3-*de*]quinoxalin-3-one:

Starting from the compounds of Preparations AA and AR and using procedure E, the title compound was obtained as an orange solid (54 mg; 23% yield).
MS (ESI, m/z): 463.0 [M+H$^+$].

Example 76: (*S*)-4-({2-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-ethylamino}-methyl)-4,5-dihydro-pyrrolo[3,2,1-*de*][1,5]naphthyridin-7-one:

Starting from the compounds of Preparations AT and J and using procedure C, the title compound was obtained as a pale yellow solid (24 mg; 7% yield).
^{1}H NMR (DMSO-d$_6$) δ: 10.54 (s, 1 H), 8.44 (d, J = 4.4 Hz, 1H), 7.94 (d, J = 9.7 Hz, 1H), 7.52 (dd, J = 4.4, 0.6 Hz, 1H), 7.31 (m, 2H), 7.04 (m, 1H), 6.77 (d, J = 9.7 Hz, 1H), 4.74 (m, 1H), 4.38 (m, 1H), 4.10 (m, 2H), 3.90 (m, 1H), 3.66 (m, 1H), 3.42 (s, 2H), 2.90 (m, 2H), 2.69 (m, 2H), 1.86 (m, 2H).
MS (ESI, m/z): 478.2 [M+H$^+$].

Example 77: (*S*)-4-({2-[(*S*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-ethylamino}-methyl)-4,5-dihydro-pyrrolo[3,2,1-*de*][1,5]naphthyridin-7-one:

Starting from the compounds of Preparations AT and K and using procedure D, the title compound was obtained as a beige solid (25 mg; 7% yield).
MS (ESI, m/z): 478.2 [M+H$^+$].

Example 78: (*R*)-4-({2-[(*S*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-ethylamino}-methyl)-4,5-dihydro-pyrrolo[3,2,1-*de*][1,5]naphthyridin-7-one:

Starting from the compounds of Preparations V and K and using procedure D, the title compound was obtained as a pale yellow solid (150 mg, 42% yield).
MS (ESI, m/z): 478.2 [$M+H^+$].

Example 79: (*S*)-7-fluoro-6-{3-[(*S*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-propylamino}-5,6-dihydro-pyrrolo[1,2,3-*de*]quinoxalin-3-one:

Starting from the compounds of Preparations AD and AU and using procedure E, the title compound was obtained as a pale yellow foam (195 mg; 79% yield).
^{1}H NMR (DMSO-d_6) δ: 10.53 (s, 1 H), 8.13 (m, 1H), 7.76 (dd, J = 8.8, 4.1 Hz, 1H), 7.34 (d, J = 2.3 Hz, 1H), 7.29 (d, J = 8.5 Hz, 1H), 7.10 (m, 2H), 4.87 (m, 1H), 4.65 (m, 1H), 4.44 (dd, J = 12.9, 8.2 Hz, 1H), 4.08 (m, 2H), 3.62 (dd, J = 8.8, 7.0 Hz, 1H), 3.41 (s, 2H), 2.60 (m, 2H), 1.74 (m, 2H), 1.74 (m, 2H).

Example 80: (*S*)-7-fluoro-6-{3-[(*S*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]oxazin-6-yl)-oxazolidin-5-yl]-propylamino}-5,6-dihydro-pyrrolo[1,2,3-*de*]quinoxalin-3-one:

Starting from the compounds of Preparations AD and AV and using procedure E, the title compound was obtained as a pale yellow solid (215 mg; 90% yield).
^{1}H NMR (DMSO-d_6) δ: 10.69 (s, 1H), 8.13 (s, 1H), 7.76 (dd, J = 8.8, 4.4 Hz, 1H), 7.31 (d, J = 2.3 Hz, 1H), 7.13 (t, J = 9.1 Hz, 1H), 6.91 (m, 2H), 4.51 (s, 2H), 4.43 (m, 1H), 4.07 (m, 2H), 2.60 (m, 2H), 1.75 (m, 2H), 1.55 (m, 2H).

Example 81: (*RS*)-1-({[(*S*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-ylmethyl]-amino}-methyl)-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one:

Starting from the compounds of Preparations AE and O and using procedure D, the title compound was obtained as a pale yellow solid (42 mg; 18% yield).
MS (ESI, m/z): 463.2 [$M+H^+$].

Example 82: (*RS*)-1-({[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]oxazin-6-yl)-oxazolidin-5-ylmethyl]-amino}-methyl)-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one:

Starting from the compounds of Preparations AE and Q and using procedure C, the title compound was obtained as a beige solid (65 mg; 29% yield).
MS (ESI, m/z): 447.3 [M+H$^+$].

Example 83: (*RS*)-1-({3-[(*RS*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-propylamino}-methyl)-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one:

Starting from the compounds of Preparations AE and AW and using procedure C, the title compound was obtained as a beige solid (40 mg; 16% yield).
MS (ESI, m/z): 490.9 [M+H$^+$].

Example 84: (*RS*)-3-fluoro-4-{2-[(*S*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-ethylamino}-4,5-dihydro-pyrrolo[3,2,1-*de*][1,5]naphthyridin-7-one:

Starting from the compound of Preparation AX and intermediate K.iv and using procedure C, the title compound was obtained as a light brown solid (4 mg; 3% yield).
MS (ESI, m/z): 482.2 [M+H$^+$].

Example 85: (*S*)-1-{3-[(*S*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-propylamino}-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one:

Starting from the compounds of Preparations AS and AU and using procedure E, the title compound was obtained as an off-white solid (182 mg; 77% yield).
MS (ESI, m/z): 476.9 [M+H$^+$].

Example 86: (*S*)-1-{3-[(*S*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]oxazin-6-yl)-oxazolidin-5-yl]-propylamino}-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one:

Starting from the compounds of Preparations AS and AV and using procedure E, the title compound was obtained as an off-white solid (167 mg; 72% yield).
MS (ESI, m/z): 460.9 [M+H$^+$].

Example 87: (*S*)-1-{2-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-ethylamino}-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one:

Starting from the compounds of Preparations AS and J and using procedure C, the title compound was obtained as a light brown solid (82 mg; 27% yield).

MS (ESI, m/z): 462.9 [M+H$^+$].

Example 88: (*S*)-1-{2-[(*S*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-ethylamino}-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one:

Starting from the compound of Preparation AS and intermediate K.iv and using procedure C, the title compound was obtained as a light brown solid (99 mg; 33% yield).

MS (ESI, m/z): 463.0 [M+H$^+$].

Example 89: (*S*)-1-{2-[(*S*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]oxazin-6-yl)-oxazolidin-5-yl]-ethylamino}-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one:

Starting from the compounds of Preparations AS and AY and using procedure C, the title compound was obtained as a light brown solid (76 mg; 26% yield).

MS (ESI, m/z): 447.0 [M+H$^+$].

Example 90: (*RS*)-9-fluoro-1-[((3-hydroxy-propyl)-{2-[(*S*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-ethyl}-amino)-methyl]-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one:

90.i. (RS)-1-[([3-(tert-butyl-dimethyl-silanyloxy)-propyl]-{2-[(S)-2-oxo-3-(3-oxo-3,4-dihydro-2H-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-ethyl}-amino)-methyl]-9-fluoro-1,2-dihydro-pyrrolo[3,2,1-ij]quinolin-4-one:

Starting from the compound of Example 4 and 3-(*tert*-butyldimethylsilyloxy)-propionaldehyde and using procedure E, the title compound was obtained as a yellow foam (82 mg; 87% yield).

MS (ESI, m/z): 667.4 [M+H$^+$].

90.ii. (RS)-9-fluoro-1-[((3-hydroxy-propyl)-{2-[(S)-2-oxo-3-(3-oxo-3,4-dihydro-2H-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-ethyl}-amino)-methyl]-1,2-dihydro-pyrrolo[3,2,1-ij]quinolin-4-one:

Starting from intermediate 90.i and using procedure J, the title compound was obtained as a light yellow foam (46 mg; 68% yield).
MS (ESI, m/z): 553.2 [$M+H^+$].

Example 91: (*RS*)-9-fluoro-1-[((2-hydroxy-ethyl)-{2-[(*S*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-ethyl}-amino)-methyl]-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one:

91.i. (RS)-1-[([2-(tert-butyl-dimethyl-silanyloxy)-ethyl]-{2-[(S)-2-oxo-3-(3-oxo-3,4-dihydro-2H-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-ethyl}-amino)-methyl]-9-fluoro-1,2-dihydro-pyrrolo[3,2,1-ij]quinolin-4-one:

Starting from the compound of Example 4 and *tert*-butyldimethylsilyloxy-acetaldehyde and using procedure E, the title compound was obtained as a yellow foam (55 mg; 59% yield).
MS (ESI, m/z): 653.4 [$M+H^+$].

91.ii. (RS)-9-fluoro-1-[((2-hydroxy-ethyl)-{2-[(S)-2-oxo-3-(3-oxo-3,4-dihydro-2H-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-ethyl}-amino)-methyl]-1,2-dihydro-pyrrolo[3,2,1-ij]quinolin-4-one:

Starting from intermediate 91.i and using procedure J, the title compound was obtained as an off-white foam (25 mg; 55% yield).
MS (ESI, m/z): 539.2 [$M+H^+$].

Example 92: (*RS*)-9-fluoro-1-((3-hydroxy-propyl)-{3-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-propyl}-amino)-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one:

92.i. (RS)-1-([3-(tert-butyl-dimethyl-silanyloxy)-propyl]-{3-[(R)-2-oxo-3-(3-oxo-3,4-dihydro-2H-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-propyl}-amino)-9-fluoro-1,2-dihydro-pyrrolo[3,2,1-ij]quinolin-4-one:

Starting from the compound of Example 13 and 3-(*tert*-butyldimethylsilyloxy)-propionaldehyde and using procedure E, the title compound was obtained as a yellow foam (62 mg; 46% yield).

MS (ESI, m/z): 667.4 [$M+H^+$].

92.ii. (RS)-9-fluoro-1-((3-hydroxy-propyl)-{3-[(R)-2-oxo-3-(3-oxo-3,4-dihydro-2H-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-propyl}-amino)-1,2-dihydro-pyrrolo[3,2,1-ij]quinolin-4-one:

Starting from intermediate 92.i and using procedure J, the title compound was obtained as an off-white foam (20 mg; 39% yield).

MS (ESI, m/z): 553.2 [$M+H^+$].

Example 93: (*RS*)-9-fluoro-1-((2-hydroxy-ethyl)-{3-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-propyl}-amino)-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one:

93.i. (RS)-1-([2-(tert-butyl-dimethyl-silanyloxy)-ethyl]-{3-[(R)-2-oxo-3-(3-oxo-3,4-dihydro-2H-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-propyl}-amino)-9-fluoro-1,2-dihydro-pyrrolo[3,2,1-ij]quinolin-4-one:

Starting from the compound of Example 13 and *tert*-butyldimethylsilyloxy-acetaldehyde and using procedure E, the title compound was obtained as a yellow foam (57 mg; 43% yield).

MS (ESI, m/z): 653.4 [$M+H^+$].

93.ii. (RS)-9-fluoro-1-((2-hydroxy-ethyl)-{3-[(R)-2-oxo-3-(3-oxo-3,4-dihydro-2H-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-propyl}-amino)-1,2-dihydro-pyrrolo[3,2,1-ij]quinolin-4-one:

Starting from intermediate 93.i and using procedure J, the title compound was obtained as a yellowish foam (15 mg; 32% yield).
MS (ESI, m/z): 539.2 [$M+H^+$].

Example 94: (*RS*)-3-fluoro-4-{3-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-propylamino}-4,5-dihydro-pyrrolo[3,2,1-*de*][1,5]naphthyridin-7-one:

Starting from the compounds of Preparations AX and U and using procedure E, the title compound was obtained as a light yellow solid (44 mg; 36% yield).
MS (ESI, m/z): 496.2 [$M+H^+$].

Example 95: (*RS*)-3-fluoro-4-{3-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]oxazin-6-yl)-oxazolidin-5-yl]-propylamino}-4,5-dihydro-pyrrolo[3,2,1-*de*][1,5]naphthyridin-7-one:

Starting from the compounds of Preparations AX and T and using procedure E, the title compound was obtained as a light yellow foam (43 mg; 37% yield).
MS (ESI, m/z): 480.2 [$M+H^+$].

Example 96: (*RS*)-3-fluoro-4-{3-[(*S*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-propylamino}-4,5-dihydro-pyrrolo[3,2,1-*de*][1,5]naphthyridin-7-one:

Starting from the compounds of Preparations AX and AU and using procedure E, the title compound was obtained as an off-white foam (53 mg; 44% yield).
MS (ESI, m/z): 496.2 [$M+H^+$].

Example 97: (*RS*)-3-fluoro-4-{3-[(*S*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]oxazin-6-yl)-oxazolidin-5-yl]-propylamino}-4,5-dihydro-pyrrolo[3,2,1-*de*][1,5]naphthyridin-7-one:

Starting from the compounds of Preparations AX and AV and using procedure E, the title compound was obtained as a light yellow foam (44 mg; 38% yield).
MS (ESI, m/z): 480.2 [M+H$^+$].

Example 98: (*RS*)-3-fluoro-4-({[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]oxazin-6-yl)-oxazolidin-5-ylmethyl]-amino}-methyl)-4,5-dihydro-pyrrolo[3,2,1-*de*][1,5]naphthyridin-7-one:

Starting from the compounds of Preparations E and S and using procedure C, the title compound was obtained as a yellow foam (12 mg; 6% yield).
MS (ESI, m/z): 466.2 [M+H$^+$].

Example 99: (*RS*)-3-fluoro-4-({2-[(*S*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-ethylamino}-methyl)-4,5-dihydro-pyrrolo[3,2,1-*de*][1,5]naphthyridin-7-one:

Starting from the compounds of Preparations E and AI and using procedure C, the title compound was obtained as a yellow solid (48 mg; 21% yield).
MS (ESI, m/z): 496.2 [M+H$^+$].

Example 100: (*RS*)-3-fluoro-4-({[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-ylmethyl]-amino}-methyl)-4,5-dihydro-pyrrolo[3,2,1-*de*][1,5]naphthyridin-7-one:

Starting from the compounds of Preparations E and N and using procedure D, the title compound was obtained as a yellow foam (27 mg; 12% yield).
MS (ESI, m/z): 482.2 [M+H$^+$].

Example 101: (*RS*)-3-fluoro-4-({[(*S*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-ylmethyl]-amino}-methyl)-4,5-dihydro-pyrrolo[3,2,1-*de*][1,5]naphthyridin-7-one:

Starting from the compounds of Preparations E and O and using procedure D, the title compound was obtained as a yellow foam (19 mg; 9% yield).
MS (ESI, m/z): 482.2 [M+H$^+$].

Example 102: (*RS*)-3-fluoro-4-({2-[(*S*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]oxazin-6-yl)-oxazolidin-5-yl]-ethylamino}-methyl)-4,5-dihydro-pyrrolo[3,2,1-*de*][1,5]naphthyridin-7-one:

Starting from the compounds of Preparations E and H and using procedure C, the title compound was obtained as a yellow foam (15 mg; 7% yield).
MS (ESI, m/z): 480.2 [M+H$^+$].

Example 103: (*RS*)-3-fluoro-4-({2-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]oxazin-6-yl)-oxazolidin-5-yl]-ethylamino}-methyl)-4,5-dihydro-pyrrolo[3,2,1-*de*][1,5]naphthyridin-7-one:

Starting from the compounds of Preparations E and I and using procedure C, the title compound was obtained as a yellow solid (16 mg; 11% yield).
MS (ESI, m/z): 480.2 [M+H$^+$].

Example 104: (*R*)-7-fluoro-6-{3-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]oxazin-6-yl)-oxazolidin-5-yl]-propylamino}-5,6-dihydro-pyrrolo[1,2,3-*de*]quinoxalin-3-one:

Starting from the compounds of Preparations AZ and T and using procedure E, the title compound was obtained as a beige solid (97 mg; 40% yield).
MS (ESI, m/z): 480.2 [M+H$^+$].

Example 105: (*R*)-7-fluoro-6-{3-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-propylamino}-5,6-dihydro-pyrrolo[1,2,3-*de*]quinoxalin-3-one:

Starting from the compounds of Preparations AZ and U and using procedure E, the title compound was obtained as a beige solid (81 mg; 32% yield).
MS (ESI, m/z): 496.2 [M+H$^+$].

Example 106: (*RS*)-6-({[(*S*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-ylmethyl]-amino}-methyl)-5,6-dihydro-pyrrolo[1,2,3-*de*]quinoxalin-3-one:

Starting from the compounds of Preparations AC and O and using procedure D, the title compound was obtained as a beige solid (158 mg; 31% yield).
MS (ESI, m/z): 464.2 [M+H$^+$].

Example 107: (*RS*)-1-{2-[(*S*)-3-(2,3-dihydro-benzo[1,4]dioxin-6-yl)-2-oxo-oxazolidin-5-yl]-ethylamino}-9-fluoro-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one:

Starting from the compounds of Preparations C and AQ and using procedure C, the title compound was obtained as a light brown solid (20 mg; 23% yield).
MS (ESI, m/z): 452.2 [M+H$^+$].

Example 108: (*RS*)-*N*-((*S*)-9-fluoro-4-oxo-1,2-dihydro-4*H*-pyrrolo[3,2,1-*ij*]quinolin-1-yl)-3-hydroxy-3-[(*RS*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-propionamide:

108.i. (RS)-3-(tert-butyl-dimethyl-silanyloxy)-(3RS)-[2-oxo-3-(3-oxo-3,4-dihydro-2H-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-propionic acid:

Starting from a solution of intermediate BA.iii (400 mg; see Preparation B) in DCM and treating with TFA, the title intermediate was obtained, after aqueous workup and trituration with ether, as a colourless solid (0.2 g, 56% yield).
MS (ESI, m/z): 453.0 [M+H$^+$].

108.ii. (RS)-N-((S)-9-fluoro-4-oxo-1,2-dihydro-4H-pyrrolo[3,2,1-ij]quinolin-1-yl)-3-hydroxy-3-[(RS)-2-oxo-3-(3-oxo-3,4-dihydro-2H-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-propionamide:

A propylphosphonic anhydride solution (50% in EA, 0.31 ml) was added dropwise to a solution of the compound of Preparation C (0.1 g), intermediate 108.i (0.22 g) and DIPEA (0.26 mL) in DMF (4 mL). The mixture was stirred at rt for 1 h and partitioned between water and EA. The org. phase was washed with dilute HCl and brine, dried over $MgSO_4$ and concentrated. Purification of the crude using CC (EA/MeOH 19:1) gave a mixture of diastereomeric compounds (ratio and relative stereochemistry was not elucidated) as a colourless solid (245 mg). This intermediate was treated with HCl in MeOH (1.25*M*), stirred at rt for 1 h, concentrated *in vacuo*, partitioned between EA and a bicarbonate solution. The product precipitated out of this mixture, was filtered off and dried under HV to give the title compound as a colourless solid (20 mg, mixture of diastereomers).
MS (ESI, m/z): 525.1 $[M+H^+]$.

Example 109: (*R*)-1-{3-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-propylamino}-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one:

Starting from the compounds of Preparations BC and U and using procedure E, the title compound was obtained as a colourless solid (96 mg; 67% yield).
MS (ESI, m/z): 477.2 $[M+H^+]$.

Example 110: (*RS*)-6-({[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-ylmethyl]-amino}-methyl)-5,6-dihydro-pyrrolo[1,2,3-*de*]quinoxalin-3-one:

Starting from the compounds of Preparations AC and N and using procedure D, the title compound was obtained as a colourless solid (15 mg; 3% yield).
MS (ESI, m/z): 464.2 $[M+H^+]$.

Example 111: (*R*)-7-fluoro-2-methoxy-6-{3-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]oxazin-6-yl)-oxazolidin-5-yl]-propylamino}-5,6-dihydro-pyrrolo[1,2,3-*de*]quinoxalin-3-one:

Starting from the compounds of Preparations BB and T and using procedure E, the title compound was obtained as a colourless solid (100 mg; 39% yield).
MS (ESI, m/z): 510.2 [$M+H^+$].

Example 112: (*R*)-7-fluoro-2-methoxy-6-{3-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-propylamino}-5,6-dihydro-pyrrolo[1,2,3-*de*]quinoxalin-3-one:

Starting from the compounds of Preparations BB and U and using procedure E, the title compound was obtained as a colourless solid (75 mg; 28% yield).
MS (ESI, m/z): 526.2 [$M+H^+$].

Example 113: (*1RS*)-9-fluoro-1-{(*3RS*)-3-hydroxy-3-[(*5RS*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-propylamino}-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one:

113.i. 3-(tert-butyl-dimethyl-silanyloxy)-3-[2-oxo-3-(3-oxo-3,4-dihydro-2H-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-propionaldehyde (mixture of diastereomers):

To a solution of the compound of Preparation BA (0.2 g) and DIPEA (0.23 mL) in DCM (5 mL) at rt was added dropwise a solution of SO_3.Pyr complex (0.145 g) in DMSO (0.5 mL) over 2 min. The mixture was stirred at rt for 1.5 h and partitioned between water and DCM. The org. phase was washed several times with water, dried over $MgSO_4$ and concentrated. The crude product was used as such in the next step (yield assumed to be quantitative).
MS (ESI, m/z): 437.1 [$M+H^+$].

113.ii. (1RS)-9-fluoro-1-{(3RS)-3-hydroxy-3-[(5RS)-2-oxo-3-(3-oxo-3,4-dihydro-2H-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-propylamino}-1,2-dihydro-pyrrolo[3,2,1-ij]quinolin-4-one:

Starting from the compound of Preparation C and intermediate 113.i and using procedure E followed by TBDMS cleavage using procedure J, the title compound was obtained as a yellowish solid (21 mg; 9% yield).

MS (ESI, m/z): 510.6 [$M+H^+$].

Example 114: *(S)*-6-{3-[*(R)*-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-propylamino}-1,2,5,6-tetrahydro-pyrrolo[1,2,3-*de*]quinoxalin-3-one:

A solution of the compound of Example 48 (33 mg) in MeOH/DCE (5 mL; 4:1) was treated with $NaBH_4$ (3 mg) for 30 min then quenched with 1*M* HCl (1 mL) and partitioned between DCM and an aq. NH_4OH solution. The org. layer was washed with water and brine, dried over $MgSO_4$ and purified by CC (EA/MeOH 19:1 to 9:1 containing 1% NH_4OH) affording a colourless solid (26 mg; 78% yield).

MS (ESI, m/z): 480.4 [$M+H^+$].

Example 115: (*RS*)-6-{3-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-pyrido[3,2-*b*][1,4]thiazin-6-yl)-oxazolidin-5-yl]-propylamino}-5,6-dihydro-pyrrolo[1,2,3-*de*]quinoxalin-3-one:

Starting from the compounds of Preparations G and BK and using procedure E, the title compound was obtained as an orange solid (95 mg, 40% yield).

^1H NMR (DMSO-d_6) δ: 10.82 (s, 1H), 8.17 (s, 1H), 7.77 (m, 1H), 7.68 (m, 2H), 7.60 (d, J = 7.3 Hz, 1H), 7.31 (dd, J = 7.9, 7.3 Hz, 1H), 4.71 (m, 2H), 4.44 (m, 1H), 4.19 (m, 1H), 4.05 (dd, J = 12.9, 3.8 Hz, 1H), 3.69 (dd, J = 10.3, 7.0 Hz, 1H), 3.51 (s, 2H), 2.64 (m, 2H), 1.76 (m, 2H), 1.50 (m, 2H).

MS (ESI, m/z): 479.4 [$M+H^+$].

Example 116: *(RS)*-9-bromo-1-{3-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-propylamino}-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one:

Starting from the compounds of Preparations BE and U and using procedure E, the title compound was obtained as a colourless solid (10 mg, 9% yield).
MS (ESI, m/z): 555.2 [$M+H^+$].

Example 117: *(RS)*-4-oxo-1-{3-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-propylamino}-1,2-dihydro-4*H*-pyrrolo[3,2,1-*ij*]quinoline-9-carbonitrile:

Starting from the compounds of Preparations BV and U and using procedure E, the title compound was obtained as a colourless solid (14 mg, 21% yield).
MS (ESI, m/z): 502.5 [$M+H^+$]

Example 118: *(RS)*-4-oxo-1-{3-[*(R)*-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-pyrido[3,2-*b*][1,4]thiazin-6-yl)-oxazolidin-5-yl]-propylamino}-1,2-dihydro-4*H*-pyrrolo[3,2,1-*ij*]quinoline-9-carbonitrile:

Starting from the compounds of Preparations BV and BK and using procedure E, the title compound was obtained as a colourless solid (15 mg, 22% yield).
^{1}H NMR ($CDCl_3$) δ: 7.83 (dd, J = 8.5, 1.2 Hz, 1H), 7.75 (d, J = 9.4 Hz, 1H), 7.58 (m, 2H), 7.41 (d, J = 7.9 Hz, 1H), 6.81 (d, J = 9.4 Hz, 1H), 5.02 (m, 1H), 4.69 (m, 1H), 4.53 (m, 1H), 4.28 (m, 2H), 3.76 (dd, J = 10.5, 7.3Hz, 1H), 3.43 (s, 2H), 2.75 (m, 2H), 1.92 (m, 5H).
MS (ESI, m/z): 503.6 [$M+H^+$].

Example 119: *(R)*-4-oxo-1-{3-[(*S*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-propylamino}-1,2-dihydro-4*H*-pyrrolo[3,2,1-*ij*]quinoline-7-carboxylic acid ethyl ester:

Starting from the compounds of Preparations BF and AU and using procedure E, the title compound was obtained as a colourless solid (910 mg, 66% yield).
MS (ESI, m/z): 549.2 [$M+H^+$]

Example 120: (*R*)-7-hydroxymethyl-1-{3-[(*S*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-propylamino}-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one:

Starting from the compounds of Preparations BG and AU and using procedure E, the title compound was obtained as a beige solid (40 mg, 16% yield).
MS (ESI, m/z): 507.2 [$M+H^+$].

Example 121: (*R*)-4-oxo-1-{3-[(*S*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-propylamino}-1,2-dihydro-4*H*-pyrrolo[3,2,1-*ij*]quinoline-7-carboxylic acid hydrochloride:

A suspension of the compound of Example 119 (100 mg) in 6*M* HCl (0.6 mL) was stirred at 90°C for 6 h. The reaction mixture was evaporated under reduced pressure and the residue was taken up in MeOH and collected by filtration, affording a beige solid (37 mg; 36% yield).
MS (ESI, m/z): 521.5 [$M+H^+$].

Example 122: (*R*)-7-dimethylaminomethyl-1-{3-[(*S*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-propylamino}-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one:

Starting from the compounds of Preparations BH and AU and using procedure E, the title compound was obtained as a beige solid (39 mg; 30% yield).
MS (ESI, m/z): 534.5 [$M+H^+$].

Example 123: (*R*)-1-{3-[(*S*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-propylamino}-7-pyrrolidin-1-ylmethyl-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one:

Starting from the compounds of Preparations BI and AU and using procedure E, the title compound was obtained as a beige foam (50 mg, 27% yield).
MS (ESI, m/z): 560.6 [$M+H^+$].

Example 124: (*RS*)-9-fluoro-1-{3-[(*S*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-pyrido[3,2-*b*][1,4]oxazin-6-yl)-oxazolidin-5-yl]-propylamino}-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one:

Starting from the compounds of Preparations C and BJ and using procedure E, the title compound was obtained as a colourless foam (87 mg, 60% yield).
MS (ESI, m/z): 480.5 [$M+H^+$].

Example 125: (*RS*)-9-fluoro-1-{3-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-pyrido[3,2-*b*][1,4]thiazin-6-yl)-oxazolidin-5-yl]-propylamino}-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one:

Starting from the compounds of Preparations C and BK and using procedure E, the title compound was obtained as a colourless solid (84 mg, 49% yield).
^{1}H NMR ($CDCl_3$) δ: 8.04 (m, 1H), 7.88 (dd, J = 8.5, 2.9 Hz, 1H), 7.68 (dd, J = 9.4, 1.2 Hz, 1H), 7.60 (dd, J = 8.5, 1.5 Hz, 1H), 7.47 (dd, J = 8.8, 4.7 Hz, 1H), 6.91 (t, J = 9.1 Hz, 1H), 6.63 (d, J = 9.4 Hz, 1H), 5.00 (m, 1H), 4.66 (m, 1H), 4.51 (m, 1H), 4.27 (m, 2H), 3.77 (dt, J = 10.3, 6.7 Hz, 1H), 3.47 (s, 2H), 2.77 (m, 2H), 1.80 (m, 4H).
MS (ESI, m/z): 496.6 [$M+H^+$].

Example 126: (*RS*)-9-fluoro-1-{3-[(*S*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-pyrido[3,2-*b*][1,4]thiazin-6-yl)-oxazolidin-5-yl]-propylamino}-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one:

Starting from the compounds of Preparations C and BL and using procedure E, the title compound was obtained as a colourless solid (54 mg, 32% yield).
^{1}H NMR ($CDCl_3$) δ: 8.03 (m, 1H), 7.88 (dd, J = 8.8, 2.9 Hz, 1H), 7.68 (dd, J = 9.4, 0.9 Hz, 1H), 7.60 (dd, J = 8.5, 1.5 Hz, 1H), 7.47 (dd, J = 8.8, 4.7 Hz, 1H), 6.91 (t, J = 9.1 Hz, 1H), 6.63 (d, J = 9.4 Hz, 1H), 5.00 (m, 1H), 4.66 (m, 1H), 4.51 (m, 1H), 4.28 (m, 2H), 3.77 (dt, J = 10.5, 7.0 Hz, 1H), 3.47 (s, 2H), 2.77 (m, 2H), 1.80 (m, 4H).
MS (ESI, m/z): 496.6 [$M+H^+$].

Examples 127 and 128: (*R*)-9-fluoro-1-{3-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-propylamino}-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one and (*S*)-9-fluoro-1-{3-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-propylamino}-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one:

The product of Example 13 was separated by preparative chiral HPLC using a 5 µm (R,R)-Whelk-01 column (21.1 x 250 mm) eluting with 1:1 MeCN-EtOH containing 0.1% of diethylamine with t_R = 7.25 min (compound of Example 127, 100% ee) and t_R = 10.26 min (compound of Example 128, 100% ee).

Data obtained for the compound of Example 127:

^{1}H NMR ($CDCl_3$) δ: 7.69 (d, J = 9.7 Hz, 1H), 7.47 (dd, J = 8.8, 4.7 Hz, 1H), 7.31 (d, J = 2.3 Hz, 1H), 7.22 (d, J = 8.5 Hz, 1H), 6.91 (m, 2H), 6.60 (d, J = 9.4 Hz, 1H), 4.95 (dd, J = 8.2, 3.5 Hz, 1H), 4.64 (m, 1H), 4.48 (m, 1H), 4.26 (dd, J = 13.5, 3.5 Hz, 1H), 4.04 (t, J = 8.8 Hz, 1H), 3.59 (dd, J = 8.8, 7.0 Hz, 1H), 3.34 (s, 2H), 2.73 (m, 2H), 1.76 (m, 4H).

MS (ESI, m/z): 495.3 [$M+H^+$].

Data obtained for the compound of Example 128:

^{1}H NMR ($CDCl_3$) δ: 7.68 (d, J = 9.4 Hz, 1H), 7.46 (dd, J = 8.5, 4.7 Hz, 1H), 7.31 (d, J = 2.3 Hz, 1H), 7.21 (d, J = 8.5 Hz, 1H), 6.90 (m, 2H), 6.59 (d, J = 9.4 Hz, 1H), 4.94 (dd, J = 8.2, 2.9 Hz, 1H), 4.62 (m, 1H), 4.47 (dd, J = 13.2, 8.2 Hz, 1H), 4.24 (dd, J = 13.5, 3.5 Hz, 1H), 4.02 (t, J = 8.5 Hz, 1H), 3.60 (m, 1H), 3.33 (s, 2H), 2.72 (m, 2H), 1.74 (m, 4H).

MS (ESI, m/z): 495.3 [$M+H^+$].

Examples 129 and 130: (*R*)-9-fluoro-1-{3-[(*S*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-propylamino}-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one and (*S*)-9-fluoro-1-{3-[(*S*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-propylamino}-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one:

First step:

Starting from the compound of Example 4 and 3-(*tert*-butyldimethylsilyloxy)-propionaldehyde and using procedure E, the title compound was obtained as a yellow foam (82 mg; 87% yield).

MS (ESI, m/z): 667.4 [M+H$^+$].

Second step:

The product from the first step was separated by preparative chiral HPLC using a 5 µm (R,R)-Whelk-01 column (21.1 x 250 mm) eluting with 1:1 MeCN-EtOH containing 0.1% of diethylamine with t_R = 7.41 min (compound of Example 129, 100% ee) and t_R = 10.35 min (compound of Example 130, 100% ee).

Data obtained for the compound of Example 129:

^{1}H NMR ($CDCl_3$) δ: 7.68 (d, J = 9.4 Hz, 1H), 7.46 (dd, J = 8.8, 4.7 Hz, 1H), 7.30 (d, J = 2.1 Hz, 1H), 7.20 (d, J = 8.5 Hz, 1H), 6.90 (m, 2H), 6.58 (d, J = 9.4 Hz, 1H), 4.94 (dd, J = 8.2, 3.2 Hz, 1H), 4.63 (m, 1H), 4.46 (dd, J = 13.5, 8.5 Hz, 1H), 4.23 (dd, J = 13.5, 3.5 Hz, 1H), 4.02 (t, J = 8.5 Hz, 1H), 3.58 (dd, J = 7.9, 7.0 Hz, 1H), 3.33 (s, 2H), 2.72 (m, 2H), 1.74 (m, 4H).

MS (ESI, m/z): 495.4 [M+H$^+$].

Data obtained for the compound of Example 130:

^{1}H NMR ($CDCl_3$) δ: 7.68 (d, J = 9.4 Hz, 1 H), 7.46 (dd, J = 8.8, 4.7 Hz, 1 H), 7.30 (d, J = 2.3 Hz, 1H), 7.21 (d, J = 8.5 Hz, 1H), 6.90 (m, 2H), 6.59 (d, J = 9.4 Hz, 1H), 4.94 (dd, J = 8.5, 3.5 Hz, 1H), 4.64 (m, 1H), 4.47 (m, 1H), 4.24 (dd, J = 13.2, 3.5 Hz, 1H), 4.03 (t, J = 8.5 Hz, 1H), 3.59 (dd, J = 8.8, 7.0 Hz, 1H), 3.33 (s, 2H), 2.71 (m, 2H), 1.75 (m, 4H).

MS (ESI, m/z): 495.4 [M+H$^+$].

Example 131: (*R*)-7-fluoro-6-{3-[(*S*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-pyrido[3,2-*b*][1,4]oxazin-6-yl)-oxazolidin-5-yl]-propylamino}-5,6-dihydro-pyrrolo[1,2,3-*de*]quinoxalin-3-one:

Starting from the compounds of Preparations AA and BJ and using procedure E, the title compound was obtained as a yellowish solid (61 mg, 42% yield).

^{1}H NMR (DMSO-d6) δ: 11.14 (s, 1H), 8.13 (s, 1H), 7.76 (dd, J = 8.8, 4.4 Hz, 1H), 7.56 (m, 1H), 7.39 (d, J = 8.8 Hz, 1H), 7.13 (t, J = 9.1 Hz, 1H), 4.66 (s, 1H), 4.58 (s, 3H), 4.44 (m, 1H), 4.18 (m, 1H), 4.08 (dd, J = 13.2, 3.2 Hz, 1H), 3.67 (dd, J = 10.0, 7.0 Hz, 1H), 2.60 (m, 2H), 1.74 (m, 2H), 1.49 (m, 2H).

MS (ESI, m/z): 481.4 [M+H$^+$].

Example 132: (*R*)-7-fluoro-6-{3-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-pyrido[3,2-*b*][1,4]thiazin-6-yl)-oxazolidin-5-yl]-propylamino}-5,6-dihydro-pyrrolo[1,2,3-*de*]quinoxalin-3-one:

Starting from the compounds of Preparations AA and BK and using procedure E, the title compound was obtained as a colourless solid (50 mg, 50% yield).

^{1}H NMR (DMSO-d6) δ: 10.81 (s, 1H), 8.13 (s, 1H), 7.77 (m, 2H), 7.66 (m, 1H), 7.13 (t, J = 9.1 Hz, 1H), 4.90 (m, 1H), 4.69 (m, 1H), 4.44 (dd, J = 12.9, 8.2 Hz, 1H), 4.19 (m, 1H), 4.08 (m, 1H), 3.68 (dd, J = 10.0, 7.0 Hz, 1H), 3.51 (s, 2H), 2.60 (dd, J = 1.2, 0.6 Hz, 2H), 1.75 (m, 2H), 1.50 (m, 2H).

Example 133: (*R*)-1-{3-[(*S*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-propylamino}-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one:

Starting from the compounds of Preparations BC and AU and using procedure E, the title compound was obtained as a yellow solid (54 mg, 45% yield).

MS (ESI, m/z): 477.2 [M+H$^+$].

Example 134: (*R*)-1-{3-[(*S*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]oxazin-6-yl)-oxazolidin-5-yl]-propylamino}-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one:

Starting from the compounds of Preparations BC and AV and using procedure E, the title compound was obtained as a colourless solid (80 mg, 69% yield).

MS (ESI, m/z): 461.2 [M+H$^+$].

Example 135: (*R*)-1-{3-[(*S*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-pyrido[3,2-*b*][1,4]oxazin-6-yl)-oxazolidin-5-yl]-propylamino}-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one:

Starting from the compounds of Preparations BC and BJ and using procedure E, the title compound was obtained as an off-white solid (75 mg, 65% yield).
MS (ESI, m/z): 462.1 [M+H$^+$].

Example 136: (*S*)-1-{3-[(*S*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-pyrido[3,2-*b*][1,4]thiazin-6-yl)-oxazolidin-5-yl]-propylamino}-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one:

Starting from the compounds of Preparations AS and BL and using procedure E, the title compound was obtained as a beige solid (31 mg, 33% yield).
^{1}H NMR (DMSO-d6) δ: 10.82 (s, 1 H), 7.89 (d, J = 9.7 Hz, 1H), 7.77 (m, 1H), 7.66 (m, 1H), 7.55 (m, 2H), 7.18 (t, J = 7.6 Hz, 1H), 6.54 (d, J = 9.4 Hz, 1H), 4.70 (m, 2H), 4.37 (m, 1H), 4.19 (m, 1H), 4.00 (m, 1H), 3.69 (m, 1H), 3.51 (s, 2H), 2.64 (m, 2H), 1.76 (m, 2H), 1.52 (m, 2H).
MS (ESI, m/z): 478.2 [M+H$^+$].

Example 137: (*S*)-1-{3-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-pyrido[3,2-*b*][1,4]thiazin-6-yl)-oxazolidin-5-yl]-propylamino}-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one:

Starting from the compounds of Preparations AS and BK and using procedure E, the title compound was obtained as an off-white foam (143 mg, 60% yield).
MS (ESI, m/z): 478.2 [M+H$^+$].

Example 138: (*R*)-3-fluoro-4-{3-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-propylamino}-4,5-dihydro-pyrrolo[3,2,1-*de*][1,5]naphthyridin-7-one:

Starting from the compounds of Preparations BM and U and using procedure E, the title compound was obtained as an off-white foam (17 mg, 14% yield).
^{1}H NMR ($CDCl_3$) δ: 9.04 (s, 1H), 8.36 (s, 1H), 7.87 (m, 1H), 7.41 (d, J = 2.1 Hz, 1H), 7.23 (m, 1H), 6.84 (m, 2H), 5.04 (dd, J = 8.5, 3.8 Hz, 1H), 4.59 (m, 2H), 4.28 (dd,

J = 13.5, 3.8 Hz, 1H), 4.04 (t, J = 8.8 Hz, 1H), 3.59 (m, 1H), 3.36 (s, 2H), 2.80 (m, 2H), 1.83 (m, 5H).

MS (ESI, m/z): 496.3 [M+H$^+$].

Example 139: (*R*)-3-fluoro-4-{3-[(*S*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-propylamino}-4,5-dihydro-pyrrolo[3,2,1-*de*][1,5]naphthyridin-7-one:

Starting from the compounds of Preparations BM and AU and using procedure E, the title compound was obtained as a yellowish foam (10 mg, 8% yield).

^{1}H NMR ($CDCl_3$) δ: 8.37 (s, 1H), 7.90 (m, 1H), 7.32 (d, J = 2.6 Hz, 1H), 7.24 (m, 2H), 6.90 (m, 1H), 6.82 (d, J = 9.7 Hz, 1H), 5.06 (m, 1H), 4.60 (m, 2H), 4.30 (m, 1H), 4.05 (t, J = 8.8 Hz, 1H), 3.61 (m, 1H), 3.35 (s, 2H), 2.81 (m, 2H), 1.79 (m, 4H).

MS (ESI, m/z): 496.6 [M+H$^+$].

Example 140: (*R*)-3-fluoro-4-{3-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]oxazin-6-yl)-oxazolidin-5-yl]-propylamino}-4,5-dihydro-pyrrolo[3,2,1-*de*][1,5]naphthyridin-7-one:

Starting from the compounds of Preparations BM and T and using procedure E, the title compound was obtained as yellowish foam (6 mg, 5%).

^{1}H NMR ($CDCl_3$) δ: 8.36 (d, J = 1.2 Hz, 1H), 7.89 (d, J = 9.7 Hz, 1H), 7.30 (d, J = 2.6 Hz, 1H), 6.81 (m, 3H), 5.03 (m, 1H), 4.59 (m, 4H), 4.26 (dd, J = 13.2, 3.8 Hz, 1H), 4.03 (t, J = 8.5 Hz, 1H), 3.58 (m, 1H), 2.77 (m, 2H), 1.77 (m, 5H).

MS (ESI, m/z): 480.6 [M+H$^+$].

Example 141: (*R*)-3-fluoro-4-{3-[(*S*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]oxazin-6-yl)-oxazolidin-5-yl]-propylamino}-4,5-dihydro-pyrrolo[3,2,1-*de*][1,5]naphthyridin-7-one:

Starting from the compounds of Preparations BM and AV and using procedure E, the title compound was obtained as a yellowish foam (8 mg, 7% yield).

^{1}H NMR ($CDCl_3$) δ: 8.37 (d, J = 1.5 Hz, 1H), 7.90 (d, J = 9.7 Hz, 1H), 7.36 (d, J = 2.3 Hz, 1H), 6.90 (m, 1H), 6.83 (d, J = 9.4 Hz, 1H), 6.73 (dd, J = 8.8, 2.6 Hz, 1H), 5.03 (m, 1H),

4.59 (m, 4H), 4.25 (dd, J = 13.2, 3.8 Hz, 1H), 4.04 (t, J = 8.5 Hz, 1H), 3.59 (m, 1H), 2.76 (m, 2H), 1.78 (m, 5H).

MS (ESI, m/z): 480.6 [$M+H^+$].

Example 142: (*R*)-3-fluoro-4-{3-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-pyrido[3,2-*b*][1,4]thiazin-6-yl)-oxazolidin-5-yl]-propylamino}-4,5-dihydro-pyrrolo[3,2,1-*de*][1,5]naphthyridin-7-one:

Starting from the compounds of Preparations BM and BK and using procedure E, the title compound was obtained as a yellowish solid (24 mg, 20% yield).

^{1}H NMR (DMSO-d_6) δ: 10.81 (s, 1H), 8.45 (d, J = 0.9 Hz, 1H), 7.96 (d, J = 9.7 Hz, 1H), 7.77 (m, 1H), 7.66 (m, 1H), 6.75 (d, J = 9.7 Hz, 1H), 4.95 (m, 1 H), 4.70 (m, 1H), 4.44 (dd, J = 12.9, 8.5 Hz, 1H), 4.19 (m, 1H), 4.04 (dd, J = 12.9, 3.5 Hz, 1H), 3.69 (dd, J = 10.3, 7.0 Hz, 1H), 3.51 (s, 2H), 2.67 (m, 3H), 1.75 (m, 2H), 1.51 (m, 2H).

MS (ESI, m/z): 497.4 [$M+H^+$].

Example 143: (*R*)-3-fluoro-4-{3-[(*S*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-pyrido[3,2-*b*][1,4]thiazin-6-yl)-oxazolidin-5-yl]-propylamino}-4,5-dihydro-pyrrolo[3,2,1-*de*][1,5]naphthyridin-7-one:

Starting from the compounds of Preparations BM and BL and using procedure E, the title compound was obtained as an off-white solid (26 mg, 21% yield).

^{1}H NMR (DMSO-d_6) δ: 10.81 (s, 1H), 8.45 (d, J = 0.6 Hz, 1H), 7.96 (dd, J = 9.7, 0.6 Hz, 1H), 7.77 (m, 1H), 7.66 (m, 1H), 6.75 (d, J = 9.7 Hz, 1H), 4.95 (m, 1H), 4.70 (m, 1H), 4.44 (m, 1H), 4.19 (m, 1H), 4.04 (dd, J = 12.6, 3.5 Hz, 1H), 3.69 (m, 1H), 3.51 (s, 3H), 2.67 (m, 3H), 1.76 (m, 2H), 1.52 (m, 2H).

MS (ESI, m/z): 497.3 [$M+H^+$].

Example 144: (*R*)-3-fluoro-4-{3-[(*S*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-pyrido[3,2-*b*][1,4]oxazin-6-yl)-oxazolidin-5-yl]-propylamino}-4,5-dihydro-pyrrolo[3,2,1-*de*][1,5]naphthyridin-7-one:

Starting from the compounds of Preparations BM and BJ and using procedure E, the title compound was obtained as a colourless solid (20 mg, 17% yield).

^{1}H NMR (DMSO-d_6) δ: 11.15 (s, 1H), 8.45 (d, J = 1.5 Hz, 1H), 7.96 (d, J = 9.7 Hz, 1H), 7.57 (m, 1H), 7.40 (m, 1H), 6.75 (d, J = 9.7 Hz, 1H), 4.95 (m, 1H), 4.67 (m, 1H), 4.58 (s, 2H), 4.44 (dd, J = 12.9, 8.5 Hz, 1H), 4.18 (m, 1H), 4.04 (dd, J = 12.6, 3.5 Hz, 1H), 3.69 (m, 1H), 2.68 (m, 3H), 1.75 (m, 2H), 1.52 (m, 2H).

MS (ESI, m/z): 481.5 [M+H$^+$].

Example 145: (*S*)-3-fluoro-4-{3-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-propylamino}-4,5-dihydro-pyrrolo[3,2,1-*de*][1,5]naphthyridin-7-one:

Starting from the compounds of Preparations BN and U and using procedure E, the title compound was obtained as a yellowish foam (16 mg, 13% yield).

^{1}H NMR ($CDCl_3$) δ: 8.37 (d, J = 1.2 Hz, 1H), 7.89 (d, J = 9.7 Hz, 1H), 7.31 (d, J = 2.3 Hz, 1H), 7.22 (d, J = 8.5 Hz, 1H), 6.91 (dd, J = 8.5, 2.3 Hz, 1H), 6.81 (d, J = 9.7 Hz, 1H), 5.08 (m, 1H), 4.60 (m, 2H), 4.32 (m, 1H), 4.05 (m, 1H), 3.60 (m, 1H), 3.34 (s, 2H), 2.83 (m, 2H), 1.85 (m, 4H).

MS (ESI, m/z): 496.5 [M+H$^+$].

Example 146: (*S*)-3-fluoro-4-{3-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]oxazin-6-yl)-oxazolidin-5-yl]-propylamino}-4,5-dihydro-pyrrolo[3,2,1-*de*][1,5]naphthyridin-7-one:

Starting from the compounds of Preparations BN and T and using procedure E, the title compound was obtained as a yellow foam (7 mg, 6% yield).

MS (ESI, m/z): 480.6 [M+H$^+$].

Example 147: (*S*)-3-fluoro-4-{3-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-pyrido[3,2-*b*][1,4]thiazin-6-yl)-oxazolidin-5-yl]-propylamino}-4,5-dihydro-pyrrolo[3,2,1-*de*][1,5]naphthyridin-7-one:

Starting from the compounds of Preparations BN and BK and using procedure E, the title compound was obtained as a colourless solid (13 mg, 11% yield).

^{1}H NMR (DMSO-d_6) δ: 10.82 (s, 1H), 8.45 (s, 1H), 7.96 (d, J = 10.0 Hz, 1H), 7.77 (m, 1H), 7.66 (m, 1H), 6.75 (d, J = 10.0 Hz, 1H), 4.96 (m, 1H), 4.69 (m, 1H), 4.44 (m, 1H),

4.19 (m, 1H), 4.04 (m, 1H), 3.69 (m, 1H), 3.50 (s, 2H), 2.66 (m, 2H), 1.75 (m, 2H), 1.51 (m, 2H).

MS (ESI, m/z): 497.6 [M+H$^+$].

Example 148: (*S*)-3-fluoro-4-{3-[(*S*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-propylamino}-4,5-dihydro-pyrrolo[3,2,1-*de*][1,5]naphthyridin-7-one:

Starting from the compounds of Preparations BN and AU and using procedure E, the title compound was obtained as a yellowish foam (30 mg, 25% yield).

^{1}H NMR ($CDCl_3$) δ: 8.36 (d, J = 1.5 Hz, 1H), 7.89 (d, J = 10.0 Hz, 1H), 7.32 (d, J = 2.3 Hz, 1H), 7.22 (d, J = 8.5 Hz, 1H), 6.90 (dd, J = 8.5, 2.3 Hz, 1H), 6.81 (d, J = 9.7 Hz, 1H), 5.04 (ddd, J = 8.5, 4.1, 0.6 Hz, 1H), 4.59 (m, 2H), 4.27 (dd, J = 13.2, 3.8 Hz, 1H), 4.05 (m, 1H), 3.60 (dd, J = 9.1, 7.3 Hz, 1H), 3.35 (s, 2H), 2.79 (m, 2H), 1.78 (m, 5H).

MS (ESI, m/z): 496.6 [M+H$^+$].

Example 149: (*S*)-3-fluoro-4-{3-[(*S*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]oxazin-6-yl)-oxazolidin-5-yl]-propylamino}-4,5-dihydro-pyrrolo[3,2,1-*de*][1,5]naphthyridin-7-one:

Starting from the compounds of Preparations BN and AV and using procedure E, the title compound was obtained as a yellow foam (8 mg, 7% yield).

MS (ESI, m/z): 480.5 [M+H$^+$].

Example 150: (*S*)-3-fluoro-4-{3-[(*S*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-pyrido[3,2-*b*][1,4]thiazin-6-yl)-oxazolidin-5-yl]-propylamino}-4,5-dihydro-pyrrolo[3,2,1-*de*][1,5]naphthyridin-7-one:

Starting from the compounds of Preparations BN and BL and using procedure E, the title compound was obtained as an orange foam (6 mg, 5% yield).

MS (ESI, m/z): 497.4 [M+H$^+$]

Example 151: (*S*)-3-fluoro-4-{3-[(*S*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-pyrido[3,2-*b*][1,4]oxazin-6-yl)-oxazolidin-5-yl]-propylamino}-4,5-dihydro-pyrrolo[3,2,1-*de*][1,5]naphthyridin-7-one:

Starting from the compounds of Preparations BN and BJ and using procedure E, the title compound was obtained as a yellowish solid (11 mg, 9% yield).

^{1}H NMR (DMSO-d_6) δ: 11.15 (s, 1H), 8.45 (s, 1H), 7.96 (d, J = 9.7 Hz, 1H), 7.57 (m, 1H), 7.40 (m, 1H), 6.75 (d, J = 10.0 Hz, 1H), 4.96 (m, 1H), 4.67 (m, 1H), 4.58 (s, 2H), 4.44 (m, 1H), 4.19 (m, 1H), 4.05 (m, 1H), 3.68 (m, 1H), 2.66 (m, 2H), 1.76 (m, 2H), 1.51 (m, 3H).

MS (ESI, m/z): 481.5 [M+H$^+$].

Example 152: (*RS*)-9-methyl-1-{3-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-propylamino}-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one:

Starting from the compounds of Preparations BO and U and using procedure E, the title compound was obtained as a colourless solid (32 mg, 38% yield).

MS (ESI, m/z): 491.2 [M+H$^+$].

Example 153: (*RS*)-9-fluoro-1-(methyl-{3-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-propyl}-amino)-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one:

A suspension of the compound of Example 152 (20 mg) in MeOH (2 mL) was treated with an aq. formaldehyde solution (37%; 16 µL) for 10 min, then treated with $NaBH_3CN$ (2.5 mg). After 3 h stirring at rt, the reaction mixture was taken up in water and extracted with EA. The org. layer was washed with water, brine and dried over $MgSO_4$. The org. layer was filtrated and evaporated under reduced pressure and the residue was purified by CC (DCM/MeOH/NH_4OH 100:50:4), affording a colourless foam (9 mg; 44% yield).

^{1}H NMR ($CDCl_3$) δ: 8.50 (s, 1H), 7.70 (d, J = 9.7 Hz, 1H), 7.48 (dd, J = 8.5, 4.4 Hz, 1H), 7.40 (d, J = 2.1 Hz, 1H), 7.27 (m, 1H), 6.94 (m, 2H), 6.64 (d, J = 9.4 Hz, 1H), 5.03 (t, J = 6.4 Hz, 1H), 4.67 (m, 1H), 4.38 (d, J = 6.4 Hz, 2H), 4.08 (m, 1H), 3.62 (m, 1H), 3.40 (s, 2H), 2.50 (m, 2H), 2.22 (d, J = 4.1 Hz, 3H), 1.77 (m, 4H).

MS (ESI, m/z): 509.3 [M+H$^+$].

Example 154: (*RS*)-6-({2-[(*S*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]oxazin-6-yl)-oxazolidin-5-yl]-ethylamino}-methyl)-5,6-dihydro-pyrrolo[1,2,3-*de*]quinoxalin-3-one:

Starting from the compounds of Preparations AC and H and using procedure C, the title compound was obtained as a yellowish foam (82 mg, 35% yield).

MS (ESI, m/z): 462.1 [M+H$^+$]

Example 155: (*RS*)-6-({2-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]oxazin-6-yl)-oxazolidin-5-yl]-ethylamino}-methyl)-5,6-dihydro-pyrrolo[1,2,3-*de*]quinoxalin-3-one:

Starting from the compounds of Preparations AC and I and using procedure C, the title compound was obtained as yellow foam (90 mg, 39% yield).

MS (ESI, m/z): 462.1 [M+H$^+$].

Example 156: (*RS*)-6-({2-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-ethylamino}-methyl)-5,6-dihydro-pyrrolo[1,2,3-*de*]quinoxalin-3-one:

Starting from the compounds of Preparations AC and J and using procedure C, the title compound was obtained as a brown foam (270 mg, 37% yield).

MS (ESI, m/z): 478.2 [M+H$^+$].

Example 157: (*R*)-1-{2-[(*S*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]oxazin-6-yl)-oxazolidin-5-yl]-ethylamino}-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one:

Starting from the compounds of Preparations BC and H and using procedure C, the title compound was obtained as a yellowish foam (59 mg, 26% yield).

MS (ESI, m/z): 447.2 [M+H$^+$].

Example 158: (*R*)-1-{2-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-ethylamino}-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one:

Starting from the compounds of Preparations BC and J and using procedure C, the title compound was obtained as a brown foam (81 mg, 35% yield).

MS (ESI, m/z): 463.2 [M+H$^+$].

Example 159: (*RS*)-9-fluoro-1-{4-[(*RS*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-butylamino}-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one:

Starting from the compounds of Preparations C and BP and using procedure E, the title compound was obtained as a colourless foam (84 mg, 55% yield).
MS (ESI, m/z): 509.1 [$M+H^+$].

Example 160: (*S*)-7-fluoro-6-{3-[(*S*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-propylamino}-1,2,5,6-tetrahydro-pyrrolo[1,2,3-*de*]quinoxalin-3-one:

A solution of the compound of Example 79 (42 mg) in DCM/MeOH (2:1; 6 mL) was treated with $NaBH_4$ (3.2 mg). After 30 min stirring at rt, the reaction mixture was quenched with 1*M* HCl (1 mL) and partitioned between DCM and aq. NH_4OH. The org. layer was washed with water, dried over $MgSO_4$, concentrated under reduced pressure and purified by CC (EA/MeOH 19:1 to 9:1), affording a beige solid (29 mg; 69% yield).
MS (ESI, m/z): 498.2 [$M+H^+$].

Example 161: (*1R,2R*)-4-oxo-1-{3-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-propylamino}-1,2-dihydro-4*H*-pyrrolo[3,2,1-*ij*]quinoline-2-carboxylic acid methyl ester and (*1S,2S*)-4-oxo-1-{3-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-propylamino}-1,2-dihydro-4*H*-pyrrolo[3,2,1-*ij*]quinoline-2-carboxylic acid methyl ester:

Starting from the compounds of Preparations BQ and U and using procedure E, a mixture of the title compounds was obtained as a yellowish solid (46 mg, 23% yield).
MS (ESI, m/z): 535.6 [$M+H^+$].

Example 162: (*1R,2R*)-4-oxo-1-{3-[(*S*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-propylamino}-1,2-dihydro-4*H*-pyrrolo[3,2,1-*ij*]quinoline-2-carboxylic acid methyl ester and (*1S,2S*)-4-oxo-1-{3-[(*S*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-propylamino}-1,2-dihydro-4*H*-pyrrolo[3,2,1-*ij*]quinoline-2-carboxylic acid methyl ester:

Starting from the compounds of Preparations BQ and AU and using procedure E, a mixture of the title compounds was obtained as a colourless solid (67 mg, 32% yield).
MS (ESI, m/z): 535.7 [$M+H^+$].

Example 163: (*1R,2R*)-2-hydroxymethyl-1-{3-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-propylamino}-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one and (*1S,2S*)-2-hydroxymethyl-1-{3-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-propylamino}-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one:

Starting from the compounds of Preparations BR and U and using procedure E, a mixture of the title compounds was obtained as a colourless solid (99 mg, 54% yield).
MS (ESI, m/z): 507.2 [$M+H^+$].

Example 164: (*1R,2R*)-2-hydroxymethyl-1-{3-[(*S*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-propylamino}-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one and (*1S,2S*)-2-hydroxymethyl-1-{3-[(*S*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-propylamino}-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one:

Starting from the compounds of Preparations BR and AU and using procedure E, a mixture of the title compounds was obtained as a colourless solid (110 mg, 60% yield).
MS (ESI, m/z): 507.2 [$M+H^+$].

Example 165: (*1R,2R*)-2-methoxymethyl-1-{3-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-propylamino}-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one and (*1S,2S*)-2-methoxymethyl-1-{3-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-propylamino}-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one:

Starting from the compounds of Preparations BS and U and using procedure E, a mixture of the title compounds was obtained as a colourless solid (20 mg, 32% yield).
MS (ESI, m/z): 521.6 [$M+H^+$].

Example 166: (*1R,2S*)-2-methyl-1-{3-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-propylamino}-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one and (*1S,2R*)-2-methyl-1-{3-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-propylamino}-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one:

Starting from the compounds of Preparations BT and U and using procedure E, a mixture of the title compounds was obtained as a colourless solid (56 mg, 38% yield).
^{1}H NMR ($CDCl_3$) δ: 8.57 (s, 1H), 7.71 (dd, J = 9.4, 0.6 Hz, 1H), 7.52 (m, 2H), 7.33 (m, 1H), 7.23 (m, 2H), 6.99 (m, 1H), 6.69 (dd, J = 9.4, 1.5 Hz, 1H), 4.82 (d, J = 6.4 Hz, 1H), 4.65 (m, 1H), 4.26 (s, 1H), 4.05 (td, J = 8.5, 6.2 Hz, 1H), 3.63 (m, 1H), 3.39 (s, 2H), 2.80 (m, 2H), 1.87 (m, 5H), 1.56 (d, J = 6.7 Hz, 3H).
MS (ESI, m/z): 491.3 [$M+H^+$].

Example 167: (*1R,2S*)-2-methyl-1-{3-[(*S*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-propylamino}-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one and (*1S,2R*)-2-methyl-1-{3-[(*S*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-propylamino}-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one:

Starting from the compounds of Preparations BT and AU and using procedure E, a mixture of the title compounds was obtained as a colourless solid (59 mg, 40% yield).
^{1}H NMR ($CDCl_3$) δ: 8.60 (dd, J = 2.3, 0.6 Hz, 1H), 7.71 (dd, J = 9.4, 0.9 Hz, 1H), 7.51 (m, 2H), 7.33 (dd, J = 14.4, 2.3 Hz, 1H), 7.24 (m, 2H), 6.98 (td, J = 8.2, 2.3 Hz, 1H), 6.69 (dd,

J = 9.4, 1.8 Hz, 1H), 4.80 (dt, J = 6.4, 1.8 Hz, 1H), 4.64 (m, 1H), 4.24 (s, 1H), 4.05 (td, J = 8.5, 5.9 Hz, 1H), 3.61 (dd, J = 8.8, 7.0 Hz, 1H), 3.39 (s, 2H), 2.80 (m, 2H), 1.79 (m, 5H), 1.55 (d, J = 6.4 Hz, 3H).

MS (ESI, m/z): 491.3 [$M+H^+$].

Example 168: (*1R,2S*)-2-methyl-1-{3-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-pyrido[3,2-*b*][1,4]thiazin-6-yl)-oxazolidin-5-yl]-propylamino}-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one and (*1S,2R*)-2-methyl-1-{3-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-pyrido[3,2-*b*][1,4]thiazin-6-yl)-oxazolidin-5-yl]-propylamino}-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one:

Starting from the compounds of Preparations BT and BK and using procedure E, a mixture of the title compounds was obtained as a colourless solid (42 mg, 24% yield).

^{1}H NMR ($CDCl_3$) δ: 8.50 (s, 1H), 7.81 (m, 1H), 7.68 (dd, J = 9.4, 5.6 Hz, 1H), 7.51 (m, 3H), 7.19 (m, 1H), 6.63 (dd, J = 9.4, 5.0 Hz, 1H), 4.76 (m, 1H), 4.62 (d, J = 7.9 Hz, 1H), 4.18 (m, 2H), 3.72 (m, 1H), 3.43 (s, 2H), 2.76 (m, 2H), 1.77 (m, 5H), 1.53 (d, J = 6.4 Hz, 3H).

MS (ESI, m/z): 492.3 [$M+H^+$].

Example 169: (*1R,2S*)-2-methyl-1-{3-[(*S*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-pyrido[3,2-*b*][1,4]thiazin-6-yl)-oxazolidin-5-yl]-propylamino}-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one and (*1S,2R*)-2-methyl-1-{3-[(*S*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-pyrido[3,2-*b*][1,4]thiazin-6-yl)-oxazolidin-5-yl]-propylamino}-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one:

Starting from the compounds of Preparations BT and BL and using procedure E, a mixture of the title compounds was obtained as a colourless solid (43 mg, 24% yield).

^{1}H NMR ($CDCl_3$) δ: 8.10 (m, 1H), 7.86 (dd, J = 8.8, 3.8 Hz, 1H), 7.71 (dd, J = 9.4, 1.5 Hz, 1H), 7.55 (m, 3H), 7.22 (m, 1H), 6.67 (d, J = 9.4 Hz, 1H), 4.83 (m, 1H), 4.64 (m, 1H), 4.22 (m, 2H), 3.75 (dt, J = 10.5, 7.3 Hz, 1H), 3.46 (s, 2H), 2.79 (m, 2H), 1.87 (m, 5H), 1.57 (dd, J = 6.4, 1.2 Hz, 3H).

MS (ESI, m/z): 492.4 [$M+H^+$].

Example 170: (*1R,2R*)-2-(1-hydroxy-1-methyl-ethyl)-1-{3-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-propylamino}-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one and (*1S,2S*)-2-(1-hydroxy-1-methyl-ethyl)-1-{3-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-propylamino}-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one:

Starting from the compounds of Preparations BU and U and using procedure E, a mixture of the title compounds was obtained as a colourless foam (22 mg, 46% yield).
MS (ESI, m/z): 535.6 [$M+H^+$].

Example 171: *(R)*-7-fluoro-6-{3-[*(R)*-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-pyrido[3,2-*b*][1,4]thiazin-6-yl)-oxazolidin-5-yl]-propylamino}-1,2,5,6-tetrahydro-pyrrolo[1,2,3-*de*]quinoxalin-3-one:

Starting from the compound of Example 132 and proceeding in analogy to Example 160, the title compound was obtained as a colourless foam (36% yield).
MS (ESI, m/z): 499.4 [$M+H^+$].

Example 172: *N*-((*RS*)-9-fluoro-4-oxo-1,2-dihydro-4*H*-pyrrolo[3,2,1-*ij*]quinolin-1-yl)-*N*-{3-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-propyl}-acetamide and (*RS*)-1-{3-[(*R*)-3-(4-acetyl-3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-2-oxo-oxazolidin-5-yl]-propylamino}-9-fluoro-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one:

A solution of the compound of Example 13 (20 mg) and DIPEA (14 µL) was reacted at 0°C with Ac_2O (6 µL). The reaction mixture was further stirred at rt for 5 h. The solvent was removed under reduced pressure and the residue was dissolved in DCM and sequentially washed with water and brine. The org. layer was dried over $MgSO_4$. The solvent was removed under reduced pressure and the residue was purified by CC (DCM/MeOH/NH_4OH; 1000:50:4), affording a 1:1-mixture of the two possible *N*-acetates as an off-white foam (18 mg; 83% yield).
MS (ESI, m/z): 537.5 [$M+H^+$].

Example 173: *(S)*-4-hydroxy-4-({2-[(*S*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-ethylamino}-methyl)-4,5-dihydro-pyrrolo[3,2,1-*de*][1,5]naphthyridin-7-one:

To a solution of the compound of Preparation BD (75 mg) in EtOH (3 mL) were added the compound of Preparation AP (89 mg, 1.5 eq.) and K_2CO_3 (65 mg, 3 eq.). The mixture was strirred at rt for 3 days. The solvent was removed under reduced pressure and the residue was partitioned between water and DCM-MeOH (9:1). The phases were separated and the aq. layer was extracted two more times with DCM-MeOH (9:1). The combined org. layers were dried over $MgSO_4$ and concentrated. The residue was purified by CC (DCM/MeOH/NH_4OH 1000:100:8) to afford the title compound as a yellow solid (26 mg, 26% yield).

MS (ESI, m/z): 494.2 [$M+H^+$].

Example 174: *(RS)*-9-fluoro-1-hydroxy-1-({2-[*(S)*-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-ethylamino}-methyl)-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one:

Starting from 9-fluoro-1-hydroxy-4-oxo-1,2-dihydro-4*H*-pyrrolo[3,2,1-*ij*]quinolin-1-yl]methyl 4-methylbenzenesulfonate (prepared according to EP 1980251) and the compound of Preparation AP and using procedure C, the title compound was obtained as a yellow solid (85 mg, 65% yield).

MS (ESI, m/z): 511.2 [$M+H^+$].

Example 175: (*RS*)-1-({[(*S*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-pyrido[3,2-*b*][1,4]thiazin-6-yl)-oxazolidin-5-ylmethyl]-amino}-methyl)-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one:

Starting from the compounds of Preparations AE and BW and using procedure C, the title compound was obtained as a beige solid (70 mg; 20 % yield).

MS (ESI, m/z): 464.4 [$M+H^+$].

Example 176: (*RS*)-1-({2-[(*S*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-pyrido[3,2-*b*][1,4]thiazin-6-yl)-oxazolidin-5-yl]-ethylamino}-methyl)-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one:

Starting from the compounds of Preparations AE and BX and using procedure C, the title compound was obtained as a colourless solid (130 mg; 36% yield).
MS (ESI, m/z): 478.2 [$M+H^+$].

Example 177: (*RS*)-9-chloro-1-{3-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-pyrido[3,2-*b*][1,4]thiazin-6-yl)-oxazolidin-5-yl]-propylamino}-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one:

Starting from the compounds of Preparations BY and BK and using procedure E, the title compound was obtained as a pale yellow solid (31 mg; 58% yield).
^{1}H NMR ($CDCl_3$) δ: 8.33 (m, 1H), 7.84 (dd, J = 8.8, 4.4 Hz, 1H), 7.66 (dd, J = 9.4, 3.5 Hz, 1H), 7.57 (dd, J = 8.5, 2.3 Hz, 1H), 7.41 (dd, J = 8.2, 1.8 Hz, 1H), 7.11 (dd, J = 8.5, 1.5 Hz, 1H), 6.66 (dd, J = 9.4, 3.8 Hz, 1H), 4.91 (m, 1H), 4.62 (m, 1H), 4.45 (m, 1H), 4.25 (m, 2H), 3.75 (m, 1H), 3.45 (s, 2H), 2.61 (m, 2H), 1.78 (m, 5H).
MS (ESI, m/z): 512.3 [$M+H^+$].

Example 178: *(RS)*-9-chloro-1-{3-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-propylamino}-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one:

Starting from the compounds of Preparations BY and U and using procedure E, the title compound was obtained as a colourless solid (14 mg; 26% yield).
^{1}H NMR (CDCl3) δ: 8.73 (s, 1H), 7.68 (d, J = 9.7 Hz, 1H), 7.39 (m, 2H), 7.25 (m, 1H), 7.12 (d, J = 8.2 Hz, 1H), 6.98 (m, 1H), 6.68 (d, J = 9.4 Hz, 1H), 4.91 (dd, J = 8.2, 3.5 Hz, 1H), 4.65 (m, 1H), 4.46 (m, 1H), 4.30 (dd, J = 13.2, 3.2 Hz, 1H), 4.06 (m, 1H), 3.61 (m, 1H), 3.39 (s, 2H), 2.64 (m, 2H), 1.86 (m, 5H).
MS (ESI, m/z): 511.3 [$M+H^+$].

Example 179: (*RS*)-9-ethyl-1-{3-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-propylamino}-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one:

Starting from the compounds of Preparations BZ and U and using procedure E, the title compound was obtained as a colourless solid (11 mg; 36% yield).

^{1}H NMR (CDCl3) δ: 8.56 (m, 1H), 7.68 (d, J = 9.4 Hz, 1H), 7.39 (m, 2H), 7.26 (m, 1H), 7.01 (m, 2H), 6.64 (d, J = 9.4 Hz, 1H), 4.82 (t, J = 5.3 Hz, 1H), 4.65 (m, 1H), 4.37 (d, J = 5.3 Hz, 2H), 4.06 (m, 1H), 3.61 (dd, J = 8.5, 7.0 Hz, 1H), 3.39 (s, 2H), 2.80 (m, 4H), 1.71 (m, 5H), 1.29 (m, 3H).

MS (ESI, m/z): 505.5 [M+H$^+$].

Example 180: (*RS*)-9-ethynyl-1-{3-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-propylamino}-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one:

Starting from the compounds of Preparations CA and U and using procedure E, the title compound was obtained as a colourless solid (10 mg; 21% yield).

MS (ESI, m/z): 501.2 [M+H$^+$].

Example 181: (*1R*,2R)-9-fluoro-4-oxo-1-{3-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-propylamino}-1,2-dihydro-4*H*-pyrrolo[3,2,1-*ij*]quinoline-2-carboxylic acid methyl ester:**

Starting from the compounds of Preparations CB and U and using procedure E, the title compound was obtained as an off-white foam (23 mg; 20% yield).

MS (ESI, m/z): 553.6 [M+H$^+$].

Example 182: (*1R*,2R)-9-fluoro-2-hydroxymethyl-1-{3-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-propylamino}-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one:**

Starting from the compounds of Preparations CC and U and using procedure E, the title compound was obtained as a white foam (44 mg; 38% yield).

MS (ESI, m/z): 525.3 [M+H$^+$].

Example 183: (*1R*,2S)-9-fluoro-2-methyl-1-{3-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-propylamino}-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one:**

Starting from the compounds of Preparations CD and U and using procedure E, the title compound was obtained as an off-white foam (12 mg; 10% yield).
MS (ESI, m/z): 509.3 [$M+H^+$].

Example 184: (*1R*,2S)-9-fluoro-2-methyl-1-{3-[(*S*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-propylamino}-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one:**

Starting from the compounds of Preparations CD and AU and using procedure E, the title compound was obtained as an off-white foam (21 mg; 18% yield).
MS (ESI, m/z): 509.3 [$M+H^+$].

Example 185: (*1R*,2S)-9-fluoro-2-methyl-1-{3-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-pyrido[3,2-*b*][1,4]thiazin-6-yl)-oxazolidin-5-yl]-propylamino}-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one:**

Starting from the compounds of Preparations CD and BK and using procedure E, the title compound was obtained as an off-white foam (64 mg; 55% yield).
MS (ESI, m/z): 510.3 [$M+H^+$].

Example 186: (*1R*,2R)-9-fluoro-4-oxo-1-{3-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-propylamino}-1,2-dihydro-4*H*-pyrrolo[3,2,1-*ij*]quinoline-2-carboxylic acid hydrochloride:**

A solution of the compound of Example 181 (20 mg) in dioxane (1 mL) was treated with aq. HCl (37%; 0.142 mL) and stirred at 50°C for 3 h. The solution was concentrated under reduced pressure and the residue was suspended in EA/MeOH (4:1), filtered, washed with TBME and dried in HV, affording a gray solid (6 mg; 29% yield).
MS (ESI, m/z): 539.2 [$M+H^+$].

Example 187: (*RS*)-9-fluoro-1-({2-[(*S*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]oxazin-6-yl)-oxazolidin-5-yl]-ethylamino}-methyl)-1,2,5,6-tetrahydro-pyrrolo[3,2,1-*ij*]quinolin-4-one:

A solution of the compound of Example 2 (60 mg) in MeOH/AcOH (1:1, 2 mL) was hydrogenated over Pd/C (133 mg) overnight. The catalyst was filtered off and thoroughly washed with MeOH and MeOH/DCM. The filtrate was concentrated under reduced pressure. The residue was taken up in water and 28% aq. NH_4OH, filtered, washed with water and TBME and dried under reduced pressure, affording an off-white foam (45 mg; 75% yield).

MS (ESI, m/z): 481.5 [$M+H^+$].

Example 188: (*1R*,2S)-2-aminomethyl-9-fluoro-1-{3-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-propylamino}-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one:**

188.i. (1R,2S*)-methanesulfonic acid 9-fluoro-4-oxo-1-{3-[2-oxo-3-(3-oxo-3,4-dihydro-2H-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-propylamino}-1,2-dihydro-4H-pyrrolo[3,2,1-ij]quinolin-2-ylmethyl ester:*

Starting from the compounds of Preparations CE and U and using procedure E, the title compound was obtained as an off-white foam (79 mg; 30% yield).

MS (ESI, m/z): 603.3 [$M+H^+$].

188.ii. (1R,2S*)-2-azidomethyl-9-fluoro-1-{3-[2-oxo-3-(3-oxo-3,4-dihydro-2H-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-propylamino}-1,2-dihydro-pyrrolo[3,2,1-ij]quinolin-4-one:*

NaN_3 (25 mg) was added to a solution of intermediate 188.i (77 mg) in DMF (1.5 mL) and the resulting mixture was stirred at 80°C for 1 h. Water and EA were added and the phases separated. The aq. layer was extracted once more with EA and the combined org. layers were washed with water and brine, dried over $MgSO_4$ and concentrated. The residue was purified by CC (DCM/MeOH/NH_4OH 1000:50:4), affording a light yellow foam (57 mg; 81% yield).

MS (ESI, m/z): 550.5 [$M+H^+$].

188.iii. (1R,2S*)-2-aminomethyl-9-fluoro-1-{3-[(R)-2-oxo-3-(3-oxo-3,4-dihydro-2H-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-propylamino}-1,2-dihydro-pyrrolo[3,2,1-ij]quinolin-4-one:*

A solution of intermediate 188.ii (57 mg) in THF (1.5 mL) was treated with PPh_3 (30 mg) and water (19 µL). The mixture was heated at 70°C overnight, concentrated under reduced pressure and the residue was taken in DCM. The DCM layer was extracted with 1*M* HCl and the aq. layer was basified with NH_4OH. The aq. layer was extracted with DCM/MeOH (9:1) and the combined org. layers were dried over $MgSO_4$, concentrated and purified by CC (DCM/MeOH/NH_4OH 1000:100:8), affording a light yellow foam (26 mg; 48% yield).
MS (ESI, m/z): 524.3 [$M+H^+$].

Example 189: (*S*)-9-fluoro-1-{3-[(*S*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-pyrido[3,2-*b*][1,4]oxazin-6-yl)-oxazolidin-5-yl]-propylamino}-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one:

Starting from the compounds of Preparations CF and BJ and using procedure E, the title compound was obtained as an off-white foam (52 mg; 32% yield).
MS (ESI, m/z): 480.5 [$M+H^+$].

Example 190: (*S*)-9-fluoro-1-{3-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-pyrido[3,2-*b*][1,4]oxazin-6-yl)-oxazolidin-5-yl]-propylamino}-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one:

Starting from the compounds of Preparations CF and AR and using procedure E, the title compound was obtained as an off-white foam (64 mg; 34% yield).
MS (ESI, m/z): 480.5 [$M+H^+$].

Example 191: (*S*)-9-fluoro-1-{3-[(*S*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-pyrido[3,2-*b*][1,4]thiazin-6-yl)-oxazolidin-5-yl]-propylamino}-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one:

Starting from the compounds of Preparations CF and BL and using procedure E, the title compound was obtained as an off-white foam (53 mg; 27% yield).
MS (ESI, m/z): 496.1 [$M+H^+$].

Example 192: (*S*)-9-fluoro-1-{3-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-pyrido[3,2-*b*][1,4]thiazin-6-yl)-oxazolidin-5-yl]-propylamino}-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one:

Starting from the compounds of Preparations CF and BK and using procedure E, the title compound was obtained as an off-white solid (73 mg; 38% yield).
MS (ESI, m/z): 496.6 [M+H$^+$].

Example 193: (*R*)-9-fluoro-1-{3-[(*S*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-pyrido[3,2-*b*][1,4]oxazin-6-yl)-oxazolidin-5-yl]-propylamino}-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one:

Starting from the compounds of Preparations CG and BJ and using procedure E, the title compound was obtained as an off-white foam (56 mg; 34% yield).
MS (ESI, m/z): 480.6 [M+H$^+$].

Example 194: (*R*)-9-fluoro-1-{3-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-pyrido[3,2-*b*][1,4]oxazin-6-yl)-oxazolidin-5-yl]-propylamino}-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one:

Starting from the compounds of Preparations CG and AR and using procedure E, the title compound was obtained as an off-white foam (71 mg; 38% yield).
MS (ESI, m/z): 480.6 [M+H$^+$].

Example 195: (*R*)-9-fluoro-1-{3-[(*S*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-pyrido[3,2-*b*][1,4]thiazin-6-yl)-oxazolidin-5-yl]-propylamino}-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one:

Starting from the compounds of Preparations CG and BL and using procedure E, the title compound was obtained as a light yellow solid (52 mg; 27% yield).
MS (ESI, m/z): 496.5 [M+H$^+$].

Example 196: (*R*)-9-fluoro-1-{3-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-pyrido[3,2-*b*][1,4]thiazin-6-yl)-oxazolidin-5-yl]-propylamino}-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one:

Starting from the compounds of Preparations CG and BK and using procedure E, the title compound was obtained as a light yellow solid (55 mg; 28% yield).
MS (ESI, m/z): 496.6 [$M+H^+$].

Example 197: (*RS*)-9-fluoro-1-({2-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-pyrido[3,2-*b*][1,4]thiazin-6-yl)-oxazolidin-5-yl]-ethylamino}-methyl)-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one:

Starting from the compounds of Preparations A and CH and using procedure C, the title compound was obtained as a pale yellow solid (40 mg; 22% yield).
MS (ESI, m/z): 496.6 [$M+H^+$].

Example 198: (*RS*)-9-fluoro-1-({2-[(*S*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-pyrido[3,2-*b*][1,4]thiazin-6-yl)-oxazolidin-5-yl]-ethylamino}-methyl)-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one:

Starting from the compounds of Preparations A and BX and using procedure C, the title compound was obtained as a pale yellow solid (10 mg; 11% yield).
MS (ESI, m/z): 496.4 [$M+H^+$].

Example 199: (*RS*)-7-fluoro-6-{3-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-pyrido[3,2-*b*][1,4]thiazin-6-yl)-oxazolidin-5-yl]-propylamino}-5,6-dihydro-pyrrolo[1,2,3-*de*]quinoxalin-3-one:

Starting from the compounds of Preparations CI and BK and using procedure E, the title compound was obtained as a light yellow solid (650 mg; 26% yield).
MS (ESI, m/z): 497.5 [$M+H^+$].

Example 200: (*RS*)-7-fluoro-6-{3-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-pyrido[3,2-*b*][1,4]thiazin-6-yl)-oxazolidin-5-yl]-propylamino}-1,2,5,6-tetrahydro-pyrrolo[1,2,3-*de*]quinoxalin-3-one:

A solution of the compound of Preparation CI (0.2 g, 0.975 mmol) and the compound of Preparation BK (0.3 g, 0.975 mmol) in DCE/MeOH (1:1, 8 mL) was stirred at rt overnight. $NaBH_4$ (110 mg) was added and the mixture stirred at rt for 1 h. The mixture was quenched with HCl 1*M* and partitioned between DCM and diluted NH_4OH. The org. phase was dried over $MgSO_4$ and concentrated. The residue was purified by CC (DCM/MeOH 19:1 containing 1% NH_4OH). The title compound was obtained as a light rose foam (78 mg; 16% yield).

MS (ESI, m/z): 499.5 [$M+H^+$].

Example 201: (*RS*)-7-fluoro-6-{3-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-pyrido[3,2-*b*][1,4]thiazin-6-yl)-oxazolidin-5-yl]-propylamino}-1-methyl-1,2,5,6-tetrahydro-pyrrolo[1,2,3-*de*]quinoxalin-3-one dihydrochloride:

201.i. ((RS)-7-fluoro-3-oxo-5,6-dihydro-3H-pyrrolo[1,2,3-de]quinoxalin-6-yl)-{3-[(R)-2-oxo-3-(3-oxo-3,4-dihydro-2H-pyrido[3,2-b][1,4]thiazin-6-yl)-oxazolidin-5-yl]-propyl}-carbamic acid tert-butyl ester:

A suspension of the compound of Example 199 (0.6 g, 1.2 mmol) in DCM (10 mL), MeOH (2 mL) and THF (5 mL) was treated with Boc_2O (526 mg, 2 eq.) was heated at reflux overnight. The volatiles were removed under reduced pressure and the residue purified by CC (EA) to give the desired intermediate as a beige foam (0.61 g, 85% yield).

MS (ESI, m/z): 597.7 [$M+H^+$].

201.ii. ((RS)-7-fluoro-3-oxo-2,3,5,6-tetrahydro-1H-pyrrolo[1,2,3-de]quinoxalin-6-yl)-{3-[(R)-2-oxo-3-(3-oxo-3,4-dihydro-2H-pyrido[3,2-b][1,4]thiazin-6-yl)-oxazolidin-5-yl]-propyl}-carbamic acid tert-butyl ester:

A solution of intermediate 201.i (610 mg) in MeOH/DCM (4:1; 20 mL) was treated with $NaBH_4$ (77 mg, 2 eq.) and stirred at rt for 2h. The mixture was quenched with HCl 1*M* and partitioned between DCM and diluted NH_4OH. The org. phase was dried over $MgSO_4$ and concentrated. The residue was purified by CC (EA). The title compound was obtained as a beige foam (410 mg; 67% yield).

MS (ESI, m/z): 599.6 [M+H$^+$].

201.iii. ((R)-7-fluoro-1-methyl-3-oxo-2,3,5,6-tetrahydro-1H-pyrrolo[1,2,3-de]quinoxalin-6-yl)-{3-[(R)-2-oxo-3-(3-oxo-3,4-dihydro-2H-pyrido[3,2-b][1,4]thiazin-6-yl)-oxazolidin-5-yl]-propyl}-carbamic acid tert-butyl ester:

A solution of intermediate 201.ii (100 mg) in MeOH (3 mL) was treated with AcOH (0.019 mL), aq. formaldehyde (37%, 0.026 mL) and $NaCNBH_3$ (30 mg). The mixture was stirred at rt for 3 h. The mixture was diluted with EA and water and the org. phase was washed with $NaHCO_3$ and brine, dried over $MgSO_4$ and concentrated. The residue was crystallized from ether to give the desired intermediate as a colourless solid (0.075 g, 73% yield).

MS (ESI, m/z): 613.7 [M+H$^+$].

201.iv. (RS)-7-fluoro-6-{3-[(R)-2-oxo-3-(3-oxo-3,4-dihydro-2H-pyrido[3,2-b][1,4]thiazin-6-yl)-oxazolidin-5-yl]-propylamino}-1-methyl-1,2,5,6-tetrahydro-pyrrolo[1,2,3-de]quinoxalin-3-one dihydrochloride:

A suspension of intermediate 201.iii (0.068 g, 0.1 mmol) in HCl (4*M* in dioxane, 1 mL) was stirred at rt for 15 min. The volatiles were removed under reduced pressure and the solid was washed with ether and dried at HV. The title salt was isolated as a grey solid (0.068 g; quant.).

MS (ESI, m/z): 513.6 [M+H$^+$].

Example 202: (*RS*)-7-fluoro-6-{3-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-pyrido[3,2-*b*][1,4]thiazin-6-yl)-oxazolidin-5-yl]-propylamino}-1-(3-hydroxypropyl)-1,2,5,6-tetrahydro-pyrrolo[1,2,3-*de*]quinoxalin-3-one dihydrochloride:

202.i. ((R)-7-fluoro-1-(3-hydroxypropyl)-methyl-3-oxo-2,3,5,6-tetrahydro-1H-pyrrolo[1,2,3-de]quinoxalin-6-yl)-{3-[(R)-2-oxo-3-(3-oxo-3,4-dihydro-2H-pyrido[3,2-b][1,4]thiazin-6-yl)-oxazolidin-5-yl]-propyl}-carbamic acid tert-butyl ester:

A solution of intermediate 201.ii (100 mg) in MeOH (3 mL) was treated with AcOH (0.019 mL), aq. formaldehyde (37%, 0.026 mL) and 3-[(*tert*-butyldimethylsilyl)oxy]-

1-propanal (88 mg, commercial). The mixture was stirred at rt for 5 h. The mixture was diluted with EA and water and the org. phase was washed with $NaHCO_3$ and brine, dried over $MgSO_4$ and concentrated. The residue was purified by CC (EA) to give the desired intermediate as a yellowish oil (0.11 g, 62% yield).

MS (ESI, m/z): 771.6 [$M+H^+$].

202.ii. (RS)-7-fluoro-6-{3-[(R)-2-oxo-3-(3-oxo-3,4-dihydro-2H-pyrido[3,2-b][1,4]thiazin-6-yl)-oxazolidin-5-yl]-propylamino}-1-(3-hydroxypropyl)-1,2,5,6-tetrahydro-pyrrolo[1,2,3-de]quinoxalin-3-one dihydrochloride:

A suspension of intermediate 202.i (0.11 g, 0.14 mmol) in HCl (4*M* in dioxane, 1.5 mL) was stirred at rt for 15 min. The volatiles were removed under reduced pressure and the solid was washed with ether and dried at HV. The title salt was isolated as a grey solid (0.071 g; 78% yield).

MS (ESI, m/z): 557.3 [$M+H^+$].

Pharmacological properties of the invention compounds

***In vitro* assays**

Experimental methods:

Minimal inhibitory concentrations (MICs; mg/l) were determined in cation-adjusted Mueller–Hinton Broth by a microdilution method following the description given in "Methods for Dilution Antimicrobial Susceptibility Tests for Bacteria that Grow Aerobically", Approved standard, 7th ed., Clinical and Laboratory Standards Institute (CLSI) Document M7-A7, Wayne, PA, USA, 2006.

Results:

All Example compounds were tested against several Gram positive and Gram negative bacteria such as *S. aureus, E. faecalis, S. pneumoniae, M. catarrhalis, A. baumanii, E.coli or P. aeruginosa*.

Typical antibacterial test results are given in the table hereafter (MIC in mg/l).

Example No.	MIC for *M. catarrhalis* A894	Example No.	MIC for *M. catarrhalis* A894
1	≤ 0.031	2	≤ 0.031
3	≤ 0.031	4	≤ 0.031
5	≤ 0.031	6	0.125
7	≤ 0.031	8	≤ 0.031
9	≤ 0.031	10	≤ 0.031
11	0.063	12	≤ 0.031
13	≤ 0.031	14	≤ 0.031
15	≤ 0.031	16	≤ 0.031
17	≤ 0.031	18	≤ 0.031
19	≤ 0.031	20	≤ 0.031
21	≤ 0.031	22	≤ 0.031
23	≤ 0.031	24	≤ 0.031
25	≤ 0.031	26	0.25
27	0.5	28	≤ 0.031
29	≤ 0.031	30	0.031
31	16	32	0.031
33	16	34	≤ 0.031
35	≤ 0.031	36	8
37	1	38	16
39	≤ 0.031	40	0.125
41	0.5	42	2
43	1	44	0.125
45	0.063	46	≤ 0.031
47	≤ 0.031	48	≤ 0.031
49	≤ 0.031	50	≤ 0.031

Example No.	MIC for *M. catarrhalis* A894	Example No.	MIC for *M. catarrhalis* A894
51	≤ 0.031	52	≤ 0.031
53	≤ 0.031	54	0.25
55	≤ 0.031	56	≤ 0.031
57	≤ 0.031	58	≤ 0.031
59	4	60	≤ 0.031
61	≤ 0.031	62	≤ 0.031
63	0.031	64	≤ 0.031
65	≤ 0.031	66	≤ 0.031
67	≤ 0.063	68	≤ 0.031
69	≤ 0.031	70	≤ 0.031
71	≤ 0.031	72	≤ 0.031
73	≤ 0.031	74	≤ 0.031
75	≤ 0.031	76	≤ 0.031
77	0.031	78	≤ 0.031
79	≤ 0.031	80	≤ 0.031
81	≤ 0.031	82	0.25
83	≤ 0.031	84	0.063
85	≤ 0.031	86	≤ 0.031
87	≤ 0.031	88	≤ 0.031
89	0.063	90	≤ 0.031
91	≤ 0.031	92	≤ 0.031
93	≤ 0.031	94	≤ 0.031
95	≤ 0.031	96	≤ 0.031
97	≤ 0.031	98	0.25
99	≤ 0.031	100	0.031

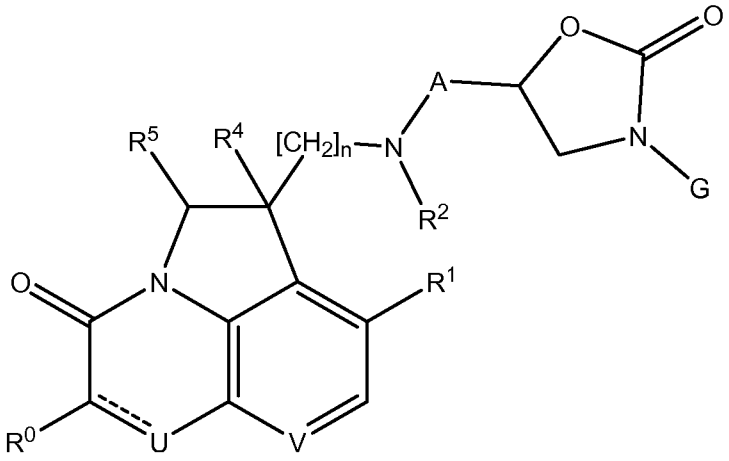
Example No.	MIC for *M. catarrhalis* A894	Example No.	MIC for *M. catarrhalis* A894
101	≤ 0.031	102	≤ 0.031
103	≤ 0.031	104	≤ 0.031
105	≤ 0.031	106	≤ 0.031
107	8	108	≤ 0.031
109	≤ 0.031	110	≤ 0.031
111	0.125	112	≤ 0.031
113	≤ 0.031	114	≤ 0.031
115	≤ 0.031	116	≤ 0.031
117	≤ 0.031	118	≤ 0.031
119	≤ 0.031	120	0.125
121	0.125	122	0.5
123	0.125	124	≤ 0.031
125	≤ 0.031	126	≤ 0.031
127	≤ 0.031	128	≤ 0.031
129	≤ 0.031	130	≤ 0.031
131	≤ 0.031	132	≤ 0.031
133	≤ 0.031	134	≤ 0.031
135	≤ 0.031	136	≤ 0.031
137	≤ 0.031	138	≤ 0.031
139	≤ 0.031	140	≤ 0.031
141	≤ 0.031	142	≤ 0.031
143	≤ 0.031	144	≤ 0.031
145	≤ 0.031	146	≤ 0.031
147	≤ 0.031	148	≤ 0.031
149	≤ 0.031	150	≤ 0.031

Example No.	MIC for *M. catarrhalis* A894	Example No.	MIC for *M. catarrhalis* A894
151	≤ 0.031	152	≤ 0.031
153	≤ 0.031	154	≤ 0.031
155	≤ 0.031	156	≤ 0.031
157	2	158	≤ 0.031
159	≤ 0.031	160	≤ 0.031
161	0.125	162	0.25
163	0.031	164	0.031
165	0.125	166	≤ 0.031
167	≤ 0.031	168	≤ 0.031
169	≤ 0.031	170	0.25
171	≤ 0.031	172	0.25
173	0.125	174	≤ 0.031
175	≤ 0.031	176	≤ 0.031
177	≤ 0.031	178	≤ 0.031
179	≤ 0.031	180	≤ 0.031
181	≤ 0.031	182	≤ 0.031
183	≤ 0.031	184	≤ 0.031
185	≤ 0.031	186	0.5
187	≤ 0.031	188	≤ 0.031
189	≤ 0.031	190	≤ 0.031
191	≤ 0.031	192	≤ 0.031
193	≤ 0.031	194	≤ 0.031
195	≤ 0.031	196	≤ 0.031

Example No.	MIC for *M. catarrhalis* A894	Example No.	MIC for *M. catarrhalis* A894
197	≤ 0.031	198	≤ 0.031
199	≤ 0.031	200	≤ 0.031
201	≤ 0.031	202	0.063

Claims

1. A compound of formula I



I

wherein

"-----" is a bond or is absent;

R^0 represents H or, in the case "-----" is a bond, may also represent $(C_1\text{-}C_3)$alkoxy;

R^1 represents H, halogen, cyano, $(C_1\text{-}C_3)$alkyl or ethynyl;

U represents CH or N when "-----" is a bond, or, in case "----" is absent, U represents CH_2, NH or NR^9;

V represents CH, CR^6 or N;

R^2 represents H, $(C_1\text{-}C_3)$alkylcarbonyl or a group of the formula $-CH_2\text{-}R^3$;

R^3 represents H, $(C_1\text{-}C_3)$alkyl or $(C_1\text{-}C_3)$hydroxyalkyl;

R^4 represents H or, in the cases wherein n is not 0 and R^5 is H, may also represent OH;

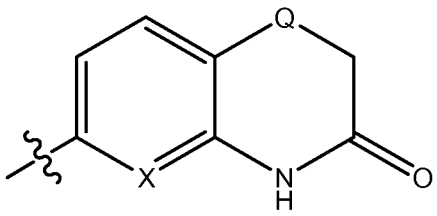
R^5 represents H, $(C_1\text{-}C_3)$alkyl, $(C_1\text{-}C_3)$hydroxyalkyl, $(C_1\text{-}C_3)$aminoalkyl, $(C_1\text{-}C_3)$alkoxy$(C_1\text{-}C_3)$alkyl, carboxy or $(C_1\text{-}C_3)$alkoxycarbonyl;

R^6 represents $(C_1\text{-}C_3)$hydroxyalkyl, carboxy, $(C_1\text{-}C_3)$alkoxycarbonyl or a group $-(CH_2)_q\text{-}NR^7R^8$ wherein q is 1, 2 or 3 and each of R^7 and R^8 independently represents H or $(C_1\text{-}C_3)$alkyl or R^7 and R^8 form together with the nitrogen atom bearing them a pyrrolidinyl, piperidinyl, morpholinyl or thiomorpholinyl ring;

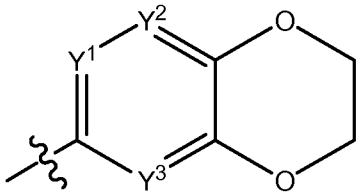
R^9 represents $(C_1\text{-}C_3)$alkyl, 2-hydroxy-ethyl, 2-hydroxy-propyl or 3-hydroxy-propyl;

A represents $-(CH_2)_p$-, $-CH_2CH_2CH(OH)$- or $-COCH_2CH(OH)$-;

G represents a phenyl group which is substituted once or twice in the meta and/or para position(s) by substituents selected independently from (C_1-C_4)alkyl, (C_1-C_3)alkoxy and a halogen, or G is a group having one of the formulae G^1 and G^2 below



G^1



G^2

wherein

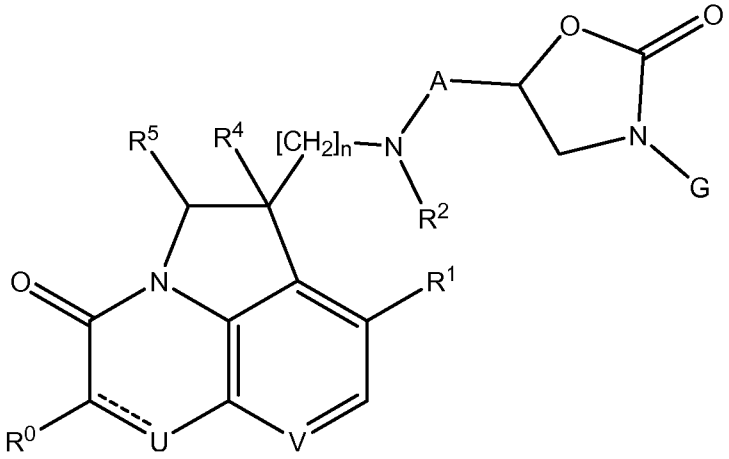
Q is O or S and X is CH or N; and

Y^1, Y^2 and Y^3 each represent CH, or Y^1 and Y^3 each represent CH and Y^2 represents N, or Y^1 represents N, Y^2 represents CH or N and Y^3 represents CH, or Y^1 and Y^2 each represent CH and Y^3 represents N; and

n is 0 when A represents $-CH_2CH_2CH(OH)-$ or $-COCH_2CH(OH)-$, and n is 0, 1 or 2 when A represents $(CH_2)_p$, p being 1, 2, 3 or 4, with the proviso that the sum of n and p is then 2, 3 or 4;

or a salt of such a compound.

2. A compound of formula I according to claim 1, which is also a compound of formula I_{P3}



I_{P3}

wherein

"-----" is a bond or is absent;

R^0 represents H or, in the case "-----" is a bond, may also represent (C_1-C_3)alkoxy;

R^1 represents H, halogen (notably F or Br), cyano or $(C_1\text{-}C_3)$alkyl;

U represents CH or N when "-----" is a bond, or, in case "----" is absent, U represents CH_2 or NH;

V represents CH, CR^6 or N;

R^2 represents H, $(C_1\text{-}C_3)$alkylcarbonyl or a group of the formula $-CH_2\text{-}R^3$;

R^3 represents H, $(C_1\text{-}C_3)$alkyl or $(C_1\text{-}C_3)$hydroxyalkyl;

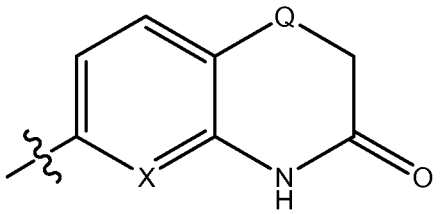
R^4 represents H or, in the cases wherein n is not 0 and R^5 is H, may also represent OH;

R^5 represents H, $(C_1\text{-}C_3)$alkyl, $(C_1\text{-}C_3)$hydroxyalkyl, $(C_1\text{-}C_3)$alkoxy$(C_1\text{-}C_3)$alkyl or $(C_1\text{-}C_3)$alkoxycarbonyl;

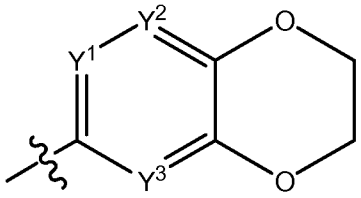
R^6 represents $(C_1\text{-}C_3)$hydroxyalkyl, carboxy, $(C_1\text{-}C_3)$alkoxycarbonyl or a group $-(CH_2)_q\text{-}NR^7R^8$ wherein q is 1, 2 or 3 and each of R^7 and R^8 independently represents H or $(C_1\text{-}C_3)$alkyl or R^7 and R^8 form together with the nitrogen atom bearing them a pyrrolidinyl, piperidinyl, morpholinyl or thiomorpholinyl ring;

A represents $-(CH_2)_p$-, $-CH_2CH_2CH(OH)$- or $-COCH_2CH(OH)$-;

G represents a phenyl group which is substituted once or twice in the meta and/or para position(s) by substituents selected independently from $(C_1\text{-}C_4)$alkyl, $(C_1\text{-}C_3)$alkoxy and a halogen, or G is a group having one of the formulae G^1 and G^2 below



G^1



G^2

wherein

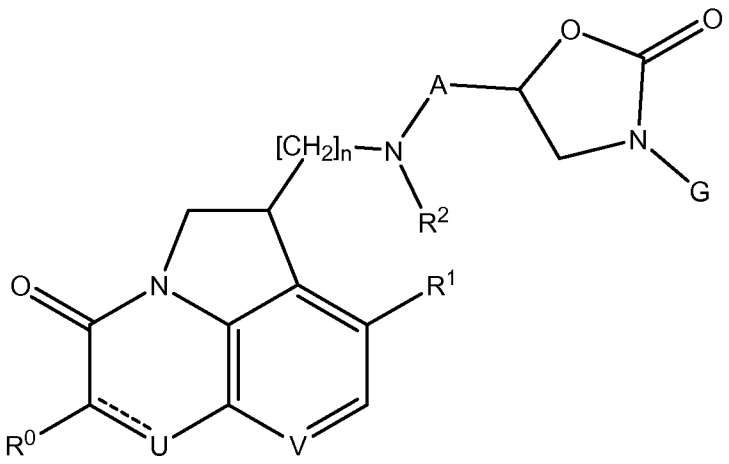
Q is O or S and X is CH or N; and

Y^1, Y^2 and Y^3 each represent CH, or Y^1 and Y^3 each represent CH and Y^2 represents N, or Y^1 represents N, Y^2 represents CH or N and Y^3 represents CH, or Y^1 and Y^2 each represent CH and Y^3 represents N; and

n is 0 when A represents $-CH_2CH_2CH(OH)$- or $-COCH_2CH(OH)$-, and n is 0, 1 or 2 when A represents $(CH_2)_p$, p being 1, 2, 3 or 4, with the proviso that the sum of n and p is then 2, 3 or 4;

or a salt of such a compound.

3. A compound of formula I according to claim 1, which is also a compound of formula I_{P2}



I_{P2}

wherein

"-----" is a bond or is absent;

R^0 represents H or, in the case "-----" is a bond, may also represent $(C_1\text{-}C_3)$alkoxy;

R^1 represents H or halogen;

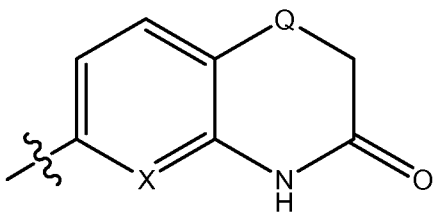
U represents CH or N, or, in case "----" is absent, U represents CH_2 or NH;

V represents CH or N;

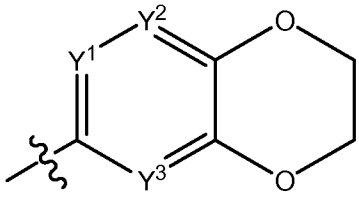
R^2 represents H or a group of the formula $-CH_2\text{-}R^3$, R^3 being H, $(C_1\text{-}C_3)$alkyl or $(C_1\text{-}C_3)$hydroxyalkyl;

A represents $-(CH_2)_p-$, $-CH_2CH_2CH(OH)-$ or $-COCH_2CH(OH)-$;

G represents a phenyl group which is substituted once or twice in the meta and/or para position(s) by substituents selected independently from $(C_1\text{-}C_4)$alkyl, $(C_1\text{-}C_3)$alkoxy and a halogen, or G is a group having one of the formulae G^1 and G^2 below



G^1



G^2

wherein

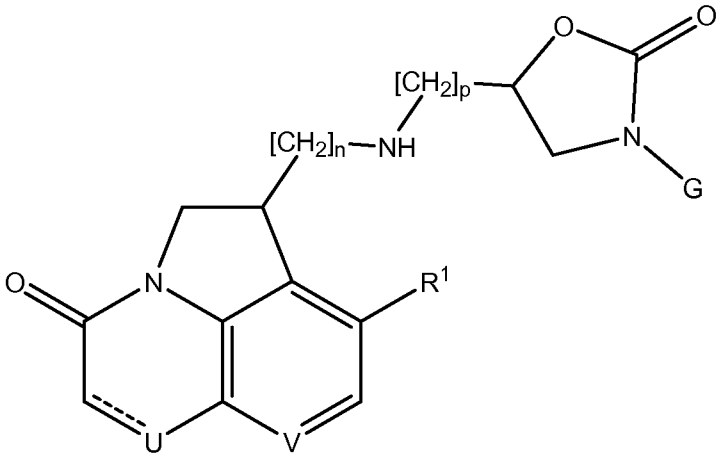
Q is O or S and X is CH or N; and

Y^1, Y^2 and Y^3 each represent CH, or Y^1 and Y^3 each represent CH and Y^2 represents N, or Y^1 represents N, Y^2 represents CH or N and Y^3 represents CH, or Y^1 and Y^2 each represent CH and Y^3 represents N; and

n is 0 when A represents $-CH_2CH_2CH(OH)-$ or $-COCH_2CH(OH)-$, and n is 0, 1 or 2 when A represents $(CH_2)_p$, p being 1, 2, 3 or 4, with the proviso that the sum of n and p is then 2, 3 or 4;

or a salt of such a compound.

4. A compound of formula I according to claim 1, which is also a compound of formula I_{P1}



I_{P1}

wherein

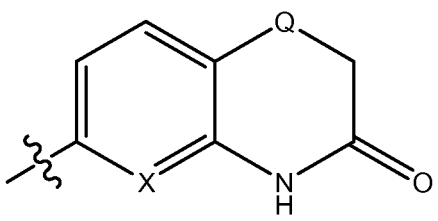
"-----" is a bond or is absent;

R^1 represents H or halogen;

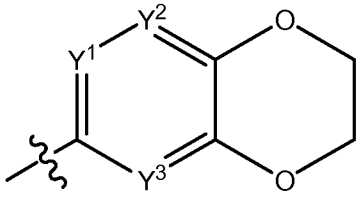
V represents CH or N;

U represents CH or N, or, in case "----" is absent, U represents CH_2 or NH;

G represents a phenyl group which is substituted once or twice in the meta and/or para position(s) by substituents selected independently from $(C_1\text{-}C_4)$alkyl, $(C_1\text{-}C_3)$alkoxy and a halogen, or G is a group having one of the formulae G^1 and G^2 below



G^1



G^2

wherein

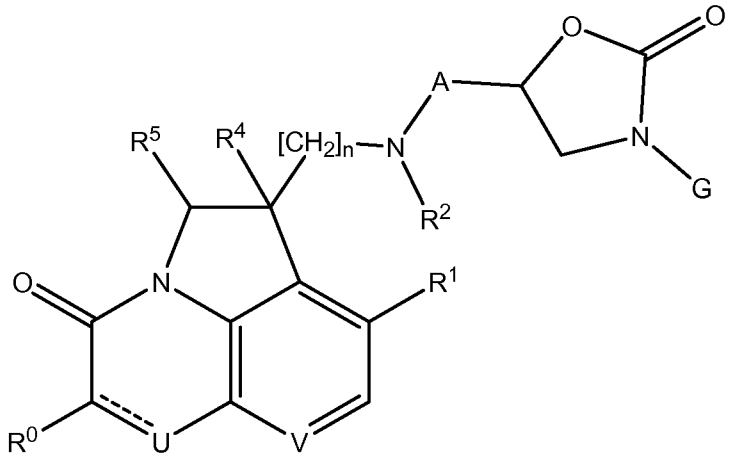
Q is O or S and X is CH or N; and

Y^1, Y^2 and Y^3 each represent CH, or Y^1 and Y^3 each represent CH and Y^2 represents N, or Y^1 represents N, Y^2 represents CH or N and Y^3 represents CH, or Y^1 and Y^2 each represent CH and Y^3 represents N; and

n is 0, 1 or 2 and p is 1, 2 or 3, with the proviso that the sum of n and p is either 2 or 3;

or a salt of such a compound.

5. A compound of formula I according to claim 1, which is also a compound of formula I_{CE}



I_{CE}

wherein

"-----" is a bond, V represents CH and U represents CH or N, or "-----" is a bond, V represents CR^6 and U represents CH, or also "-----" is a bond, V represents N and U represents CH, or

"-----" is absent, V represents CH and U represents CH_2, NH or NR^9;

R^0 represents H or, in the case "-----" is a bond, may also represent $(C_1$-$C_3)$alkoxy;

R^1 represents H, halogen, cyano, $(C_1$-$C_3)$alkyl or ethynyl;

V represents CH, CR^6 or N;

R^2 represents H, acetyl or a group of the formula $–CH_2$-R^3;

R^3 represents hydrogen, $(C_1$-$C_3)$alkyl or $(C_1$-$C_3)$hydroxyalkyl;

R^4 represents H or, in the cases wherein n is not 0 and R^5 is H, may also represent OH;

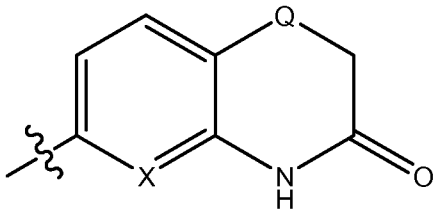
R^5 represents H, $(C_1$-$C_3)$alkyl, $(C_1$-$C_3)$hydroxyalkyl, $(C_1$-$C_3)$aminoalkyl, $(C_1$-$C_3)$alkoxy$(C_1$-$C_3)$alkyl, carboxy or $(C_1$-$C_3)$alkoxycarbonyl;

R^6 represents $(C_1$-$C_3)$hydroxyalkyl, carboxy, $(C_1$-$C_3)$alkoxycarbonyl or a group $-(CH_2)_q-NR^7R^8$ wherein q is 1, 2 or 3 and each of R^7 and R^8 independently represents H or $(C_1$-$C_3)$alkyl or R^7 and R^8 form together with the nitrogen atom bearing them a pyrrolidinyl or piperidinyl ring;

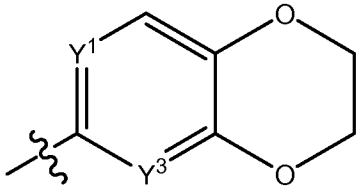
R^9 represents $(C_1$-$C_3)$alkyl, 2-hydroxy-ethyl, 2-hydroxy-propyl or 3-hydroxy-propyl;

A represents $-(CH_2)_p-$, $-CH_2CH_2CH(OH)-$ or $-COCH_2CH(OH)-$;

G represents a phenyl group which is substituted once or twice in the meta and/or para position(s) by substituents selected independently from $(C_1$-$C_4)$alkyl, $(C_1$-$C_3)$alkoxy and a halogen, or G is a group having one of the formulae G^1 and $G^{2'}$ below



G^1



$G^{2'}$

wherein

Q is O or S and X is CH or N; and

each of Y^1 and Y^3 represents CH, or one of Y^1 and Y^3 represents N and the other represents CH; and

n is 0 when A represents $-CH_2CH_2CH(OH)-$ or $-COCH_2CH(OH)-$, and n is 0, 1 or 2 when A represents $(CH_2)_p$, p being 1, 2, 3 or 4, with the proviso that the sum of n and p is then 2, 3 or 4;

or a salt of such a compound.

6. A compound of formula I according to one of claims 1 to 5, wherein R^1 represents fluorine;

or a salt of such a compound.

7. A compound of formula I according to one of claims 1 to 6, wherein V represents CH;

or a salt of such a compound.

8. A compound of formula I according to one of claims 1 to 6, wherein V represents N;

or a salt of such a compound.

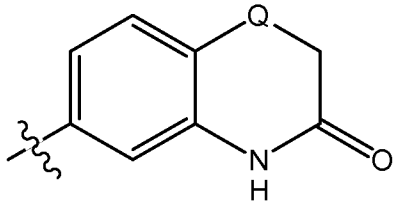
9. A compound of formula I according to one of claims 1 to 8, wherein "-----" is a bond and U represents CH or N;

or a salt of such a compound.

10. A compound of formula I according to one of claims 1 to 8, wherein "-----" is absent and U represents CH_2, NH or NR^9;

or a salt of such a compound.

11. A compound of formula I according to one of claims 1 to 10, wherein G is a group of the formula



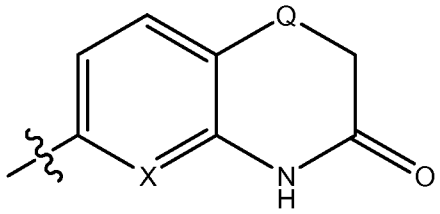
wherein Q represents O or S;

or a salt of such a compound.

12. A compound of formula I according to claim 1, wherein:

- "-----" is a bond and V represents CH and U represents CH or N or V represents N and U represents CH;
- R^0 represents H;
- R^1 represents H or fluorine;
- R^2 represents H;
- R^4 represents H;
- R^5 represents H, methyl, hydroxymethyl or aminomethyl;
- n is 0 and A represents $-(CH_2)_p-$ wherein p is 2, 3 or 4, or n is 1 and A represents $-(CH_2)_p-$ wherein p is 1, 2 or 3; and

- G is a group having the formula G^1 below



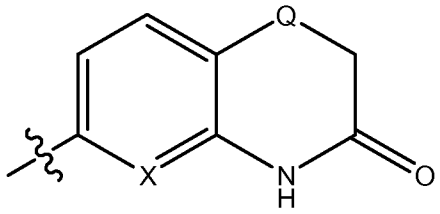
G^1

wherein X is CH or N and Q is O or S;

or a salt of such a compound.

13. A compound of formula I according to claim 1, wherein:

- "-----" is absent and U represents NH or NR^9 wherein R^9 is methyl;
- R^0 represents H;
- R^1 represents H or fluorine;
- R^2 represents H;
- each of R^4 and R^5 represents H;
- n is 0 and A represents $-(CH_2)_p-$ wherein p is 2, 3 or 4, or n is 1 and A represents $-(CH_2)_p-$ wherein p is 1, 2 or 3; and
- G is a group having the formula G^1 below



G^1

wherein X is CH or N and Q is O or S;

or a salt of such a compound.

14. A compound of formula I according to claim 1 or 5, which is selected from the following:

- 9-fluoro-1-({2-[(*S*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]oxazin-6-yl)-oxazolidin-5-yl]-ethylamino}-methyl)-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;

- 9-fluoro-1-({2-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]oxazin-6-yl)-oxazolidin-5-yl]-ethylamino}-methyl)-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;

- 9-fluoro-1-({2-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-ethylamino}-methyl)-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;

- 9-fluoro-1-({[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-ylmethyl]-amino}-methyl)-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;

- 9-fluoro-1-({2-[3-(3-fluoro-4-methyl-phenyl)-2-oxo-oxazolidin-5-yl]-ethylamino}-methyl)-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;

- 1-(2-{[(*R*)-3-(2,3-dihydro-benzo[1,4]dioxin-6-yl)-2-oxo-oxazolidin-5-ylmethyl]-amino}-ethyl)-9-fluoro-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;

- 9-fluoro-1-(2-{[(*S*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-ylmethyl]-amino}-ethyl)-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;

- 9-fluoro-1-(2-{[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]oxazin-6-yl)-oxazolidin-5-ylmethyl]-amino}-ethyl)-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;

- 9-fluoro-1-(2-{[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-ylmethyl]-amino}-ethyl)-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;

- 9-fluoro-1-(2-{[(*R*)-3-(3-fluoro-4-methyl-phenyl)-2-oxo-oxazolidin-5-ylmethyl]-amino}-ethyl)-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;

- 9-fluoro-1-{3-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]oxazin-6-yl)-oxazolidin-5-yl]-propylamino}-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;

- 9-fluoro-1-{2-[2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-ethylamino}-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;

- (*4R*)-4-({2-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-ethylamino}-methyl)-4,5-dihydro-pyrrolo[3,2,1-*de*][1,5]naphthyridin-7-one;

- 3-fluoro-4-(2-{[(*S*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-ylmethyl]-amino}-ethyl)-4,5-dihydro-pyrrolo[3,2,1-*de*][1,5]naphthyridin-7-one;

- 3-fluoro-4-(2-{[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-ylmethyl]-amino}-ethyl)-4,5-dihydro-pyrrolo[3,2,1-*de*][1,5]naphthyridin-7-one;

- (*4R*)-4-{3-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-propylamino}-4,5-dihydro-pyrrolo[3,2,1-*de*][1,5]naphthyridin-7-one;

- (*4R*)-4-{3-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]oxazin-6-yl)-oxazolidin-5-yl]-propylamino}-4,5-dihydro-pyrrolo[3,2,1-*de*][1,5]naphthyridin-7-one;

- 6-{3-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-propylamino}-5,6-dihydro-pyrrolo[1,2,3-*de*]quinoxalin-3-one;

- 6-{3-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]oxazin-6-yl)-oxazolidin-5-yl]-propylamino}-5,6-dihydro-pyrrolo[1,2,3-*de*]quinoxalin-3-one;

- 9-fluoro-1-(2-{[(*S*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-ylmethyl]-amino}-ethyl)-1,2,5,6-tetrahydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;

- 9-fluoro-1-({2-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-ethylamino}-methyl)-1,2,5,6-tetrahydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;

- 9-fluoro-1-(2-{[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-ylmethyl]-amino}-ethyl)-1,2,5,6-tetrahydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;

- 9-fluoro-1-(2-{[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]oxazin-6-yl)-oxazolidin-5-ylmethyl]-amino}-ethyl)-1,2,5,6-tetrahydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;

- 1-(2-{[(*R*)-3-(2,3-dihydro-benzo[1,4]dioxin-6-yl)-2-oxo-oxazolidin-5-ylmethyl]-amino}-ethyl)-9-fluoro-1,2,5,6-tetrahydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;

- 9-fluoro-1-(2-{[(*R*)-3-(3-fluoro-4-methyl-phenyl)-2-oxo-oxazolidin-5-ylmethyl]-amino}-ethyl)-1,2,5,6-tetrahydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;

- 3-fluoro-4-({2-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-ethylamino}-methyl)-4,5-dihydro-pyrrolo[3,2,1-*de*][1,5]naphthyridin-7-one;

- 9-fluoro-1-({2-[(*S*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-ethylamino}-methyl)-1,2,5,6-tetrahydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;

- 9-fluoro-1-({[(*S*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-ylmethyl]-amino}-methyl)-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;

- 1-({[(*R*)-3-(2,3-dihydro-benzo[1,4]dioxin-6-yl)-2-oxo-oxazolidin-5-ylmethyl]-amino}-methyl)-9-fluoro-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;

- 9-fluoro-1-({[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]oxazin-6-yl)-oxazolidin-5-ylmethyl]-amino}-methyl)-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;

- 9-fluoro-1-({[(*R*)-3-(3-fluoro-4-methyl-phenyl)-2-oxo-oxazolidin-5-ylmethyl]-amino}-methyl)-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;

- 1-{3-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-propylamino}-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;

- 1-({[(*R*)-3-(4-ethoxy-phenyl)-2-oxo-oxazolidin-5-ylmethyl]-amino}-methyl)-9-fluoro-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;

- 9-fluoro-1-({[(*R*)-2-oxo-3-(4-propyl-phenyl)-oxazolidin-5-ylmethyl]-amino}-methyl)-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;
- 1-({[(*R*)-3-(4-butyl-phenyl)-2-oxo-oxazolidin-5-ylmethyl]-amino}-methyl)-9-fluoro-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;
- (*S*)-4-{3-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-propylamino}-4,5-dihydro-pyrrolo[3,2,1-*de*][1,5]naphthyridin-7-one;
- (*S*)-4-{3-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]oxazin-6-yl)-oxazolidin-5-yl]-propylamino}-4,5-dihydro-pyrrolo[3,2,1-*de*][1,5]naphthyridin-7-one;
- (*S*)-4-{2-[(*S*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-ethylamino}-4,5-dihydro-pyrrolo[3,2,1-*de*][1,5]naphthyridin-7-one;
- 1-({2-[3-(2,3-dihydro-[1,4]dioxino[2,3-*c*]pyridin-7-yl)-2-oxo-oxazolidin-5-yl]-ethylamino}-methyl)-9-fluoro-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;
- 1-({2-[3-(2,3-dihydro-[1,4]dioxino[2,3-*b*]pyridin-6-yl)-2-oxo-oxazolidin-5-yl]-ethylamino}-methyl)-9-fluoro-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;
- 1-({2-[(*R*)-3-(4-ethoxy-phenyl)-2-oxo-oxazolidin-5-yl]-ethylamino}-methyl)-9-fluoro-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;
- 9-fluoro-1-({2-[(*R*)-2-oxo-3-(4-propyl-phenyl)-oxazolidin-5-yl]-ethylamino}-methyl)-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;
- 1-({2-[(*R*)-3-(2,3-dihydro-benzo[1,4]dioxin-6-yl)-2-oxo-oxazolidin-5-yl]-ethylamino}-methyl)-9-fluoro-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;
- 9-fluoro-1-({2-[2-oxo-3-(3-oxo-3,4-dihydro-2*H*-pyrido[3,2-*b*][1,4]oxazin-6-yl)-oxazolidin-5-yl]-ethylamino}-methyl)-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;
- (*S*)-6-{3-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-propylamino}-5,6-dihydro-pyrrolo[1,2,3-*de*]quinoxalin-3-one;
- (*S*)-9-fluoro-1-({2-[(*S*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-ethylamino}-methyl)-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;
- (*R*)-9-fluoro-1-({2-[(*S*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-ethylamino}-methyl)-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;
- 9-fluoro-1-({3-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-propylamino}-methyl)-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;
- 9-fluoro-1-({3-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]oxazin-6-yl)-oxazolidin-5-yl]-propylamino}-methyl)-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;

- 1-({2-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-ethylamino}-methyl)-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;
- (*S*)-6-{2-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-ethylamino}-5,6-dihydro-pyrrolo[1,2,3-*de*]quinoxalin-3-one;
- (*S*)-6-{2-[(*S*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-ethylamino}-5,6-dihydro-pyrrolo[1,2,3-*de*]quinoxalin-3-one;
- 6-({2-[(*S*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-ethylamino}-methyl)-5,6-dihydro-pyrrolo[1,2,3-*de*]quinoxalin-3-one;
- (*S*)-7-fluoro-6-{3-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]oxazin-6-yl)-oxazolidin-5-yl]-propylamino}-5,6-dihydro-pyrrolo[1,2,3-*de*]quinoxalin-3-one;
- (*S*)-7-fluoro-6-{3-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-propylamino}-5,6-dihydro-pyrrolo[1,2,3-*de*]quinoxalin-3-one;
- 9-fluoro-1-{2-[*(R)*-2-oxo-3-(4-propyl-phenyl)-oxazolidin-5-yl]-ethylamino}-1,2-dihydro-pyrrolo[3,2,1-ij]quinolin-4-one;
- 1-({2-[(*S*)-3-(2,3-dihydro-benzo[1,4]dioxin-6-yl)-2-oxo-oxazolidin-5-yl]-ethylamino}-methyl)-9-fluoro-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;
- 1-({2-[(*S*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-ethylamino}-methyl)-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;
- 1-({2-[(*S*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]oxazin-6-yl)-oxazolidin-5-yl]-ethylamino}-methyl)-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;
- 1-({[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-ylmethyl]-amino}-methyl)-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;
- (*R*)-6-{3-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-propylamino}-5,6-dihydro-pyrrolo[1,2,3-*de*]quinoxalin-3-one;
- (*R*)-6-{3-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]oxazin-6-yl)-oxazolidin-5-yl]-propylamino}-5,6-dihydro-pyrrolo[1,2,3-*de*]quinoxalin-3-one;
- (*S*)-7-fluoro-6-((2-hydroxy-ethyl)-{3-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-propyl}-amino)-5,6-dihydro-pyrrolo[1,2,3-*de*]quinoxalin-3-one;
- (*S*)-7-fluoro-6-((2-hydroxy-ethyl)-{3-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]oxazin-6-yl)-oxazolidin-5-yl]-propyl}-amino)-5,6-dihydro-pyrrolo[1,2,3-*de*]quinoxalin-3-one;

- 9-fluoro-1-(2-{(3-hydroxy-propyl)-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-ylmethyl]-amino}-ethyl)-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;

- 9-fluoro-1-(2-{(2-hydroxy-ethyl)-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-ylmethyl]-amino}-ethyl)-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;

- 9-fluoro-1-{3-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-pyrido[3,2-*b*][1,4]oxazin-6-yl)-oxazolidin-5-yl]-propylamino}-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;

- (*S*)-7-fluoro-6-{3-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-pyrido[3,2-*b*][1,4]oxazin-6-yl)-oxazolidin-5-yl]-propylamino}-5,6-dihydro-pyrrolo[1,2,3-*de*]quinoxalin-3-one;

- (*S*)-1-{3-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-propylamino}-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;

- (*S*)-1-{3-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]oxazin-6-yl)-oxazolidin-5-yl]-propylamino}-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;

- (*S*)-1-{3-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-pyrido[3,2-*b*][1,4]oxazin-6-yl)-oxazolidin-5-yl]-propylamino}-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;

- (*R*)-6-{3-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-pyrido[3,2-*b*][1,4]oxazin-6-yl)-oxazolidin-5-yl]-propylamino}-5,6-dihydro-pyrrolo[1,2,3-*de*]quinoxalin-3-one;

- (*S*)-4-({2-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-ethylamino}-methyl)-4,5-dihydro-pyrrolo[3,2,1-*de*][1,5]naphthyridin-7-one;

- (*S*)-4-({2-[(*S*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-ethylamino}-methyl)-4,5-dihydro-pyrrolo[3,2,1-*de*][1,5]naphthyridin-7-one;

- (*R*)-4-({2-[(*S*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-ethylamino}-methyl)-4,5-dihydro-pyrrolo[3,2,1-*de*][1,5]naphthyridin-7-one;

- (*S*)-7-fluoro-6-{3-[(*S*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-propylamino}-5,6-dihydro-pyrrolo[1,2,3-*de*]quinoxalin-3-one;

- (*S*)-7-fluoro-6-{3-[(*S*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]oxazin-6-yl)-oxazolidin-5-yl]-propylamino}-5,6-dihydro-pyrrolo[1,2,3-*de*]quinoxalin-3-one;

- 1-({[(*S*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-ylmethyl]-amino}-methyl)-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;

- 1-({[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]oxazin-6-yl)-oxazolidin-5-ylmethyl]-amino}-methyl)-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;

- 1-({3-[2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-propylamino}-methyl)-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;

- 3-fluoro-4-{2-[(*S*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-ethylamino}-4,5-dihydro-pyrrolo[3,2,1-*de*][1,5]naphthyridin-7-one;
- (*S*)-1-{3-[(*S*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-propylamino}-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;
- (*S*)-1-{3-[(*S*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]oxazin-6-yl)-oxazolidin-5-yl]-propylamino}-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;
- (*S*)-1-{2-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-ethylamino}-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;
- (*S*)-1-{2-[(*S*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-ethylamino}-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;
- (*S*)-1-{2-[(*S*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]oxazin-6-yl)-oxazolidin-5-yl]-ethylamino}-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;
- 9-fluoro-1-[((3-hydroxy-propyl)-{2-[(*S*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-ethyl}-amino)-methyl]-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;
- 9-fluoro-1-[((2-hydroxy-ethyl)-{2-[(*S*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-ethyl}-amino)-methyl]-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;
- 9-fluoro-1-((3-hydroxy-propyl)-{3-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-propyl}-amino)-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;
- 9-fluoro-1-((2-hydroxy-ethyl)-{3-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-propyl}-amino)-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;
- 3-fluoro-4-({[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]oxazin-6-yl)-oxazolidin-5-ylmethyl]-amino}-methyl)-4,5-dihydro-pyrrolo[3,2,1-*de*][1,5]naphthyridin-7-one;
- 3-fluoro-4-({2-[(*S*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-ethylamino}-methyl)-4,5-dihydro-pyrrolo[3,2,1-*de*][1,5]naphthyridin-7-one;
- 3-fluoro-4-({[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-ylmethyl]-amino}-methyl)-4,5-dihydro-pyrrolo[3,2,1-*de*][1,5]naphthyridin-7-one;
- 3-fluoro-4-({[(*S*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-ylmethyl]-amino}-methyl)-4,5-dihydro-pyrrolo[3,2,1-*de*][1,5]naphthyridin-7-one;
- 3-fluoro-4-({2-[(*S*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]oxazin-6-yl)-oxazolidin-5-yl]-ethylamino}-methyl)-4,5-dihydro-pyrrolo[3,2,1-*de*][1,5]naphthyridin-7-one;

- 3-fluoro-4-({2-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]oxazin-6-yl)-oxazolidin-5-yl]-ethylamino}-methyl)-4,5-dihydro-pyrrolo[3,2,1-*de*][1,5]naphthyridin-7-one;
- (*R*)-7-fluoro-6-{3-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]oxazin-6-yl)-oxazolidin-5-yl]-propylamino}-5,6-dihydro-pyrrolo[1,2,3-*de*]quinoxalin-3-one;
- (*R*)-7-fluoro-6-{3-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-propylamino}-5,6-dihydro-pyrrolo[1,2,3-*de*]quinoxalin-3-one;
- 6-({[(*S*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-ylmethyl]-amino}-methyl)-5,6-dihydro-pyrrolo[1,2,3-*de*]quinoxalin-3-one;
- 1-{2-[(*S*)-3-(2,3-dihydro-benzo[1,4]dioxin-6-yl)-2-oxo-oxazolidin-5-yl]-ethylamino}-9-fluoro-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;
- *N*-((*S*)-9-fluoro-4-oxo-1,2-dihydro-4*H*-pyrrolo[3,2,1-*ij*]quinolin-1-yl)-3-hydroxy-3-[2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-propionamide;
- (*R*)-1-{3-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-propylamino}-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;
- 6-({[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-ylmethyl]-amino}-methyl)-5,6-dihydro-pyrrolo[1,2,3-*de*]quinoxalin-3-one;
- (*R*)-7-fluoro-2-methoxy-6-{3-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]oxazin-6-yl)-oxazolidin-5-yl]-propylamino}-5,6-dihydro-pyrrolo[1,2,3-*de*]quinoxalin-3-one;
- (*R*)-7-fluoro-2-methoxy-6-{3-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-propylamino}-5,6-dihydro-pyrrolo[1,2,3-*de*]quinoxalin-3-one;
- 9-fluoro-1-{3-hydroxy-3-[2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-propylamino}-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;
- *(S)*-6-{3-[*(R)*-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-propylamino}-1,2,5,6-tetrahydro-pyrrolo[1,2,3-*de*]quinoxalin-3-one;
- 6-{3-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-pyrido[3,2-*b*][1,4]thiazin-6-yl)-oxazolidin-5-yl]-propylamino}-5,6-dihydro-pyrrolo[1,2,3-*de*]quinoxalin-3-one;
- 9-bromo-1-{3-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-propylamino}-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;
- 4-oxo-1-{3-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-propylamino}-1,2-dihydro-4*H*-pyrrolo[3,2,1-*ij*]quinoline-9-carbonitrile;
- 4-oxo-1-{3-[*(R)*-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-pyrido[3,2-*b*][1,4]thiazin-6-yl)-oxazolidin-5-yl]-propylamino}-1,2-dihydro-4*H*-pyrrolo[3,2,1-*ij*]quinoline-9-carbonitrile;

- *(R)*-4-oxo-1-{3-[(*S*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-propylamino}-1,2-dihydro-4*H*-pyrrolo[3,2,1-*ij*]quinoline-7-carboxylic acid ethyl ester;

- (*R*)-7-hydroxymethyl-1-{3-[(*S*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-propylamino}-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;

- (*R*)-4-oxo-1-{3-[(*S*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-propylamino}-1,2-dihydro-4*H*-pyrrolo[3,2,1-*ij*]quinoline-7-carboxylic acid;

- (*R*)-7-dimethylaminomethyl-1-{3-[(*S*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-propylamino}-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;

- (*R*)-1-{3-[(*S*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-propylamino}-7-pyrrolidin-1-ylmethyl-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;

- 9-fluoro-1-{3-[(*S*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-pyrido[3,2-*b*][1,4]oxazin-6-yl)-oxazolidin-5-yl]-propylamino}-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;

- 9-fluoro-1-{3-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-pyrido[3,2-*b*][1,4]thiazin-6-yl)-oxazolidin-5-yl]-propylamino}-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;

- 9-fluoro-1-{3-[(*S*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-pyrido[3,2-*b*][1,4]thiazin-6-yl)-oxazolidin-5-yl]-propylamino}-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;

- (*R*)-9-fluoro-1-{3-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-propylamino}-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;

- (*S*)-9-fluoro-1-{3-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-propylamino}-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;

- (*R*)-9-fluoro-1-{3-[(*S*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-propylamino}-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;

- (*S*)-9-fluoro-1-{3-[(*S*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-propylamino}-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;

- (*R*)-7-fluoro-6-{3-[(*S*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-pyrido[3,2-*b*][1,4]oxazin-6-yl)-oxazolidin-5-yl]-propylamino}-5,6-dihydro-pyrrolo[1,2,3-*de*]quinoxalin-3-one;

- (*R*)-7-fluoro-6-{3-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-pyrido[3,2-*b*][1,4]thiazin-6-yl)-oxazolidin-5-yl]-propylamino}-5,6-dihydro-pyrrolo[1,2,3-*de*]quinoxalin-3-one;

- (*R*)-1-{3-[(*S*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-propylamino}-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;

- (*R*)-1-{3-[(*S*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]oxazin-6-yl)-oxazolidin-5-yl]-propylamino}-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;

- (*R*)-1-{3-[(*S*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-pyrido[3,2-*b*][1,4]oxazin-6-yl)-oxazolidin-5-yl]-propylamino}-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;
- (*S*)-1-{3-[(*S*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-pyrido[3,2-*b*][1,4]thiazin-6-yl)-oxazolidin-5-yl]-propylamino}-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;
- (*S*)-1-{3-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-pyrido[3,2-*b*][1,4]thiazin-6-yl)-oxazolidin-5-yl]-propylamino}-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;
- (*R*)-3-fluoro-4-{3-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-propylamino}-4,5-dihydro-pyrrolo[3,2,1-*de*][1,5]naphthyridin-7-one;
- (*R*)-3-fluoro-4-{3-[(*S*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-propylamino}-4,5-dihydro-pyrrolo[3,2,1-*de*][1,5]naphthyridin-7-one;
- (*R*)-3-fluoro-4-{3-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]oxazin-6-yl)-oxazolidin-5-yl]-propylamino}-4,5-dihydro-pyrrolo[3,2,1-*de*][1,5]naphthyridin-7-one;
- (*R*)-3-fluoro-4-{3-[(*S*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]oxazin-6-yl)-oxazolidin-5-yl]-propylamino}-4,5-dihydro-pyrrolo[3,2,1-*de*][1,5]naphthyridin-7-one;
- (*R*)-3-fluoro-4-{3-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-pyrido[3,2-*b*][1,4]thiazin-6-yl)-oxazolidin-5-yl]-propylamino}-4,5-dihydro-pyrrolo[3,2,1-*de*][1,5]naphthyridin-7-one;
- (*R*)-3-fluoro-4-{3-[(*S*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-pyrido[3,2-*b*][1,4]thiazin-6-yl)-oxazolidin-5-yl]-propylamino}-4,5-dihydro-pyrrolo[3,2,1-*de*][1,5]naphthyridin-7-one;
- (*R*)-3-fluoro-4-{3-[(*S*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-pyrido[3,2-*b*][1,4]oxazin-6-yl)-oxazolidin-5-yl]-propylamino}-4,5-dihydro-pyrrolo[3,2,1-*de*][1,5]naphthyridin-7-one;
- (*S*)-3-fluoro-4-{3-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-propylamino}-4,5-dihydro-pyrrolo[3,2,1-*de*][1,5]naphthyridin-7-one;
- (*S*)-3-fluoro-4-{3-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]oxazin-6-yl)-oxazolidin-5-yl]-propylamino}-4,5-dihydro-pyrrolo[3,2,1-*de*][1,5]naphthyridin-7-one;
- (*S*)-3-fluoro-4-{3-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-pyrido[3,2-*b*][1,4]thiazin-6-yl)-oxazolidin-5-yl]-propylamino}-4,5-dihydro-pyrrolo[3,2,1-*de*][1,5]naphthyridin-7-one;
- (*S*)-3-fluoro-4-{3-[(*S*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-propylamino}-4,5-dihydro-pyrrolo[3,2,1-*de*][1,5]naphthyridin-7-one;
- (*S*)-3-fluoro-4-{3-[(*S*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]oxazin-6-yl)-oxazolidin-5-yl]-propylamino}-4,5-dihydro-pyrrolo[3,2,1-*de*][1,5]naphthyridin-7-one;
- (*S*)-3-fluoro-4-{3-[(*S*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-pyrido[3,2-*b*][1,4]thiazin-6-yl)-oxazolidin-5-yl]-propylamino}-4,5-dihydro-pyrrolo[3,2,1-*de*][1,5]naphthyridin-7-one;

- (*S*)-3-fluoro-4-{3-[(*S*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-pyrido[3,2-*b*][1,4]oxazin-6-yl)-oxazolidin-5-yl]-propylamino}-4,5-dihydro-pyrrolo[3,2,1-*de*][1,5]naphthyridin-7-one;

- 9-methyl-1-{3-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-propylamino}-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;

- 9-fluoro-1-(methyl-{3-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-propyl}-amino)-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;

- 6-({2-[(*S*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]oxazin-6-yl)-oxazolidin-5-yl]-ethylamino}-methyl)-5,6-dihydro-pyrrolo[1,2,3-*de*]quinoxalin-3-one;

- (*RS*)-6-({2-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]oxazin-6-yl)-oxazolidin-5-yl]-ethylamino}-methyl)-5,6-dihydro-pyrrolo[1,2,3-*de*]quinoxalin-3-one;

- 6-({2-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-ethylamino}-methyl)-5,6-dihydro-pyrrolo[1,2,3-*de*]quinoxalin-3-one;

- (*R*)-1-{2-[(*S*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]oxazin-6-yl)-oxazolidin-5-yl]-ethylamino}-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;

- (*R*)-1-{2-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-ethylamino}-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;

- 9-fluoro-1-{4-[(*S*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-butylamino}-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;

- (*S*)-7-fluoro-6-{3-[(*S*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-propylamino}-1,2,5,6-tetrahydro-pyrrolo[1,2,3-*de*]quinoxalin-3-one;

- (*1R*,2R**)-4-oxo-1-{3-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-propylamino}-1,2-dihydro-4*H*-pyrrolo[3,2,1-*ij*]quinoline-2-carboxylic acid methyl ester;

- (*1R*,2R**)-4-oxo-1-{3-[(*S*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-propylamino}-1,2-dihydro-4*H*-pyrrolo[3,2,1-*ij*]quinoline-2-carboxylic acid methyl ester;

- (*1R*,2R**)-2-hydroxymethyl-1-{3-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-propylamino}-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;

- (*1R*,2R**)-2-hydroxymethyl-1-{3-[(*S*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-propylamino}-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;

- (*1R*,2R**)-2-methoxymethyl-1-{3-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-propylamino}-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;
- (*1R*,2S**)-2-methyl-1-{3-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-propylamino}-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;
- (*1R*,2S**)-2-methyl-1-{3-[(*S*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-propylamino}-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;
- (*1R*,2S**)-2-methyl-1-{3-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-pyrido[3,2-*b*][1,4]thiazin-6-yl)-oxazolidin-5-yl]-propylamino}-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;
- (*1R*,2S**)-2-methyl-1-{3-[(*S*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-pyrido[3,2-*b*][1,4]thiazin-6-yl)-oxazolidin-5-yl]-propylamino}-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;
- (*1R*,2R**)-2-(1-hydroxy-1-methyl-ethyl)-1-{3-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-propylamino}-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;
- *(R)*-7-fluoro-6-{3-[*(R)*-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-pyrido[3,2-*b*][1,4]thiazin-6-yl)-oxazolidin-5-yl]-propylamino}-1,2,5,6-tetrahydro-pyrrolo[1,2,3-*de*]quinoxalin-3-one;
- *N*-(9-fluoro-4-oxo-1,2-dihydro-4*H*-pyrrolo[3,2,1-*ij*]quinolin-1-yl)-*N*-{3-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-propyl}-acetamide;
- *(S)*-4-hydroxy-4-({2-[(*S*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-ethylamino}-methyl)-4,5-dihydro-pyrrolo[3,2,1-*de*][1,5]naphthyridin-7-one;
- 9-fluoro-1-hydroxy-1-({2-[*(S)*-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-ethylamino}-methyl)-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;
- 1-({[(*S*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-pyrido[3,2-*b*][1,4]thiazin-6-yl)-oxazolidin-5-ylmethyl]-amino}-methyl)-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;
- 1-({2-[(*S*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-pyrido[3,2-*b*][1,4]thiazin-6-yl)-oxazolidin-5-yl]-ethylamino}-methyl)-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;
- 9-chloro-1-{3-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-pyrido[3,2-*b*][1,4]thiazin-6-yl)-oxazolidin-5-yl]-propylamino}-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;
- 9-chloro-1-{3-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-propylamino}-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;
- 9-ethyl-1-{3-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-propylamino}-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;

- 9-ethynyl-1-{3-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-propylamino}-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;

- (*1R*,2R**)-9-fluoro-4-oxo-1-{3-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-propylamino}-1,2-dihydro-4*H*-pyrrolo[3,2,1-*ij*]quinoline-2-carboxylic acid methyl ester;

- (*1R*,2R**)-9-fluoro-2-hydroxymethyl-1-{3-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-propylamino}-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;

- (*1R*,2S**)-9-fluoro-2-methyl-1-{3-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-propylamino}-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;

- (*1R*,2S**)-9-fluoro-2-methyl-1-{3-[(*S*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-propylamino}-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;

- (*1R*,2S**)-9-fluoro-2-methyl-1-{3-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-pyrido[3,2-*b*][1,4]thiazin-6-yl)-oxazolidin-5-yl]-propylamino}-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;

- (*1R*,2R**)-9-fluoro-4-oxo-1-{3-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-propylamino}-1,2-dihydro-4*H*-pyrrolo[3,2,1-*ij*]quinoline-2-carboxylic acid;

- 9-fluoro-1-({2-[(*S*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]oxazin-6-yl)-oxazolidin-5-yl]-ethylamino}-methyl)-1,2,5,6-tetrahydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;

- (*1R*,2S**)-2-aminomethyl-9-fluoro-1-{3-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-benzo[1,4]thiazin-6-yl)-oxazolidin-5-yl]-propylamino}-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;

- (*S*)-9-fluoro-1-{3-[(*S*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-pyrido[3,2-*b*][1,4]oxazin-6-yl)-oxazolidin-5-yl]-propylamino}-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;

- (*S*)-9-fluoro-1-{3-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-pyrido[3,2-*b*][1,4]oxazin-6-yl)-oxazolidin-5-yl]-propylamino}-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;

- (*S*)-9-fluoro-1-{3-[(*S*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-pyrido[3,2-*b*][1,4]thiazin-6-yl)-oxazolidin-5-yl]-propylamino}-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;

- (*S*)-9-fluoro-1-{3-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-pyrido[3,2-*b*][1,4]thiazin-6-yl)-oxazolidin-5-yl]-propylamino}-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;

- (*R*)-9-fluoro-1-{3-[(*S*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-pyrido[3,2-*b*][1,4]oxazin-6-yl)-oxazolidin-5-yl]-propylamino}-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;
- (*R*)-9-fluoro-1-{3-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-pyrido[3,2-*b*][1,4]oxazin-6-yl)-oxazolidin-5-yl]-propylamino}-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;
- (*R*)-9-fluoro-1-{3-[(*S*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-pyrido[3,2-*b*][1,4]thiazin-6-yl)-oxazolidin-5-yl]-propylamino}-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;
- (*R*)-9-fluoro-1-{3-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-pyrido[3,2-*b*][1,4]thiazin-6-yl)-oxazolidin-5-yl]-propylamino}-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;
- 9-fluoro-1-({2-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-pyrido[3,2-*b*][1,4]thiazin-6-yl)-oxazolidin-5-yl]-ethylamino}-methyl)-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;
- 9-fluoro-1-({2-[(*S*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-pyrido[3,2-*b*][1,4]thiazin-6-yl)-oxazolidin-5-yl]-ethylamino}-methyl)-1,2-dihydro-pyrrolo[3,2,1-*ij*]quinolin-4-one;
- 7-fluoro-6-{3-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-pyrido[3,2-*b*][1,4]thiazin-6-yl)-oxazolidin-5-yl]-propylamino}-5,6-dihydro-pyrrolo[1,2,3-*de*]quinoxalin-3-one;
- 7-fluoro-6-{3-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-pyrido[3,2-*b*][1,4]thiazin-6-yl)-oxazolidin-5-yl]-propylamino}-1,2,5,6-tetrahydro-pyrrolo[1,2,3-*de*]quinoxalin-3-one;
- 7-fluoro-6-{3-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-pyrido[3,2-*b*][1,4]thiazin-6-yl)-oxazolidin-5-yl]-propylamino}-1-methyl-1,2,5,6-tetrahydro-pyrrolo[1,2,3-*de*]quinoxalin-3-one;
- 7-fluoro-6-{3-[(*R*)-2-oxo-3-(3-oxo-3,4-dihydro-2*H*-pyrido[3,2-*b*][1,4]thiazin-6-yl)-oxazolidin-5-yl]-propylamino}-1-(3-hydroxypropyl)-1,2,5,6-tetrahydro-pyrrolo[1,2,3-*de*]quinoxalin-3-one;

or a salt of such a compound.

15. As a medicament, a compound of formula I as defined in one of claims 1 to 14, or a pharmaceutically acceptable salt thereof.

16. A pharmaceutical composition containing, as active principle, a compound of formula I as defined in one of claims 1 to 14, or a pharmaceutically acceptable salt thereof, and at least one therapeutically inert excipient.

17. Use of a compound of formula I as defined in one of claims 1 to 14, or of a pharmaceutically acceptable salt thereof, for the manufacture of a medicament for the prevention or treatment of a bacterial infection.

18. A compound of formula I as defined in one of claims 1 to 14, or a pharmaceutically acceptable salt thereof, for the prevention or treatment of a bacterial infection.