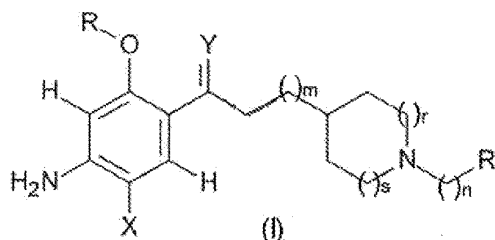


CLAIMS

1. Compound of the following formula (I):



5

wherein:

X represents

a hydrogen atom, or

a halogen atom (Hal), where (Hal) is fluorine, chlorine, bromine or iodine, or

10

a straight- or branched-chain $C_p(\text{Hal})_{2p+1}$ polyhalogenoalkyl group, where $p=1, 2, 3$ or 4 , (Hal) having the same meaning as indicated above;

Y represents

an oxygen atom, or

15

a sulfur atom, or

an $N-R''$ radical where R'' represents a hydrogen atom, an $-OH$ radical, an $-O-A$ radical where A represents a straight- or branched-chain C_1-C_6 alkyl group, in particular where A represents a methyl group, or a straight- or branched-chain C_qH_{2q+1} alkyl radical, where

20

$q=1, 2, 3$ or 4 ;

m is an integer selected from $1, 2$ and 3 ;

n is an integer selected from $0, 1, 2$ and 3 ;

r and s are integers whose values are: $r=s=0$; or $r=s=1$; or $r=s=2$; or $r=0$ and $s=1$; or lastly $r=0$ and $s=2$;

25

R represents

a hydrogen atom, or

a straight- or branched-chain C_1-C_5 alkyl group capable of carrying one or more F atoms;

R' represents

30

a branched-chain C_1-C_6 alkyl radical, or

a C₃-C₁₀ cycloalkyl or C₅-C₁₃ bicyclic group, capable of carrying one or more R groups and of possessing an oxygen atom, or a nitrogen atom that can be substituted by R, or a sulfur atom or a radical -SO₂- or -SO-,

5 as well as its enantiomers or diastereoisomers and its racemics, its acid salts, its hydrates or its solvation products,
for use as neuroprotective agent in the prevention and/or treatment of a neurodegenerative disease.

10 2. Compound for its use according to claim 1, wherein Y in the formula (I) represents:

an oxygen atom, or

a sulfur atom, or

an N-R'' radical where R'' represents a hydrogen atom, an -OH radical or a

15 straight- or branched-chain C_qH_{2q+1} alkyl radical, where q=1, 2, 3 or 4.

3. Compound for its use according to claim 1 or 2, wherein X in the formula (I) represents a halogen atom.

20 4. Compound for its use according to any one of claims 1 to 3, wherein Y in the formula (I) represents an oxygen atom.

5. Compound for its use according to any one of claims 1 to 4, wherein all of m, n, r and s in the formula (I) have the value 1.

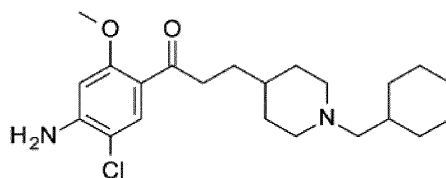
25 6. Compound for its use according to any one of claims 1 to 5, wherein R in the formula (I) represents H, CH₃, CH₂CH₃ or CH₂-CH₂F.

30 7. Compound for its use according to any one of claims 1 to 6, wherein R' in the formula (I) represents a radical selected from the group consisting in the radicals cyclopropyl, cyclobutyl, cyclopentyl, cyclohexyl, cycloheptyl and 4-piperidine.

8. Compound for its use according to claims 3 to 7, wherein R in the formula (I) represents a methyl radical and R' a C₄-C₇ cycloalkyl radical.

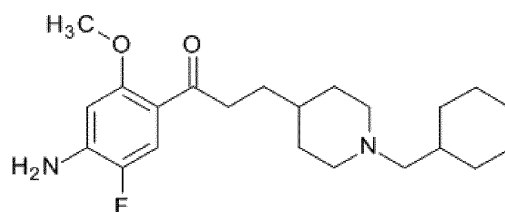
35

9. Compound for its use according to any one of claims 1 to 8, wherein the compound is the Donecopride compound of the following formula (II):



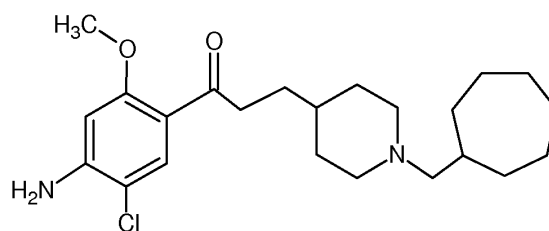
(II).

- 5 10. Compound for its use according to any one of claims 1 to 8, wherein the compound is the Flucopride compound of the following formula (III):



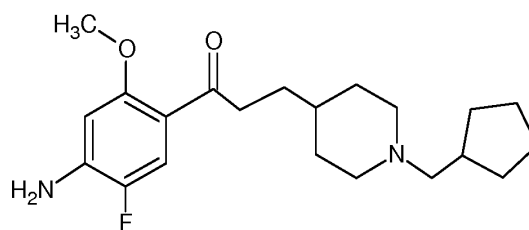
(III).

- 10 11. Compound for its use according to any one of claims 1 to 8, wherein the compound is the MR31192 compound of the following formula (VIII):



(VIII).

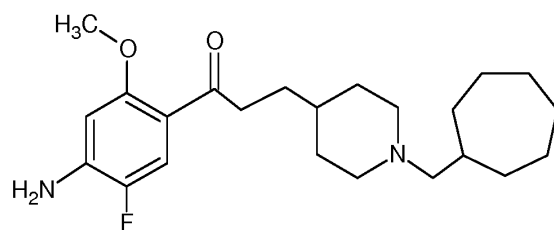
12. Compound for its use according to any one of claims 1 to 8, wherein the compound is the MR33583 compound of the following formula (V):



(V).

- 15 13. Compound for its use according to any one of claims 1 to 8, wherein the compound is the MR36014 compound of the following formula (VII):

72



(VII).

14. Compound for its use according to any one of claims 1 to 13, wherein said acids salts are fumarates or dihydrochlorates.

5

15. Compound for its use according to any one of claims 1 to 14, wherein the neurogenerative disease is selected from the group consisting in Alzheimer's disease, Parkinson's disease, Huntington's disease, multiple system atrophy, motor neurone diseases including amyotrophic lateral sclerosis, Down syndrome and frontotemporal degenerations.

10

16. Compound for its use according to claim 15, wherein the neurodegenerative disease is selected from the group consisting in Alzheimer's disease, Parkinson's disease, Huntington's disease and amyotrophic lateral sclerosis.

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