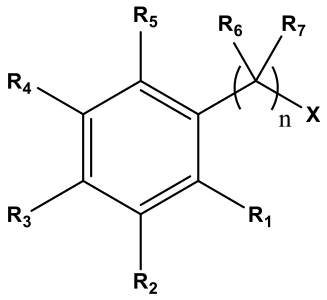
We claim:

1. A compound of formula (I):



(I),

wherein

- R1 is a C1-C12 alkyl group, a C1-C12 hydroxyalkyl group, a C1-C12 haloalkyl group, a heteroalkyl group having 3-12 atoms of which 1-4 atoms are heteroatoms, a C3-C12 alkenyl group having 1-3 double bonds, a heteroalkenyl group having 1-3 double bonds and 5-12 atoms of which 1-3 atoms are heteroatoms, a C3-C12 haloalkenyl group having 1-3 double bonds, a C3-C12 alkynyl group having 1-3 triple bonds, a C(O)R8 group, a OR8 group, a S(O)nR8 group or a NR8R9 group, a phenyl group, or a benzyl group;
- R2, R3 and R4 are the same or different and are independently chosen from a hydrogen atom or a halogen atom; and
- R5 is a C4-C12 alkyl group, a C4-C12 hydroxyalkyl group, a C4-C12 haloalkyl group, a heteroalkyl group having 4-12 atoms of which 1-4 atoms are heteroatoms, a C4-C12 alkenyl group having 1-3 double bonds, a heteroalkenyl group having 1-3 double bonds and 5-12 atoms of which 1-3 atoms are heteroatoms, a C4-C12 haloalkenyl group having 1-3 double bonds, a C4-C12 alkynyl group having 1-3 triple bonds, a C(O)R10 group, a OR10 group, a S(O)nR10 group, or a NR9R10 group;
- R6 and R7 are the same or different and are independently chosen from a hydrogen atom and an C1-C6 alkyl group, wherein R6 and R7 together can form a cycloalkyl group, such as cyclopropane, cyclobutane, cyclopentane, or cyclohexane;
- R8 is a C1-C11 alkyl group, a C2-C11 hydroxyalkyl group, a C2-C11 haloalkyl group, a heteroalkyl group having 4-11 atoms of which 1-3 atoms are heteroatoms, a C3-C11 alkenyl group having 1-3 double bonds, a heteroalkenyl group having 1-3 double bonds and 5-11 atoms of which 1-3 atoms are heteroatoms, a haloalkenyl group having 1-3 double bonds, or a C3-C11 alkynyl group having 1-3 triple bonds;
- R9 is a hydrogen atom or a C1-C11 alkyl group;

- R10 is C3-C11 alkyl group, a C3-C11 hydroxyalkyl group, a C3-C11 haloalkyl group, a heteroalkyl group having 4-11 atoms of which 1-3 atoms are heteroatoms, a C3-C11 alkenyl group having 1-3 double bonds, a heteroalkenyl group having 1-3 double bonds and 5-11 atoms of which 1-3 atoms are heteroatoms, a C3-C11 haloalkenyl group having 1-3 double bonds, or a C3-C11 alkynyl group having 1-3 triple bonds;
- R11 is a C1-C4 alkyl group;
- R12 and R13 are independently chosen from a hydrogen atom and a C1-C4 alkyl group;
- X is a hydroxymethyl or a carboxylic acid or a derivative thereof, wherein the derivative is a carboxylate, such as a carboxylic ester, a glyceride, an anhydride, a carboxamide, or a phospholipid, or a prodrug thereof;
- Y is an oxygen atom, a sulphur atom, or a NR12R13 group;
- m is 3 or 4; and
- n is 0 ,1 or 2;

or a pharmaceutically acceptable salt, solvate, solvate of such salt, or prodrug thereof.

2. The compound according to claim 1, wherein

- R1 is a C1-C4 alkyl group, a C1-C4 hydroxyalkyl group, a C1-C4 haloalkyl group, a heteroalkyl group having 3-4 atoms of which 1 atom is a heteroatom, or a OR11 group; and
- R5 is a C4-C9 alkyl group, a C4-C9 hydroxyalkyl group, a C4-C9 haloalkyl group, a heteroalkyl group having 4-9 atoms of which 1-3 atoms are heteroatoms, a C4-C9 alkenyl group having 1-2 double bonds, a heteroalkenyl group having 1-2 double bonds and 5-9 atoms of which 1-2 atoms are heteroatoms, a C4-C9 haloalkenyl group having 1-2 double bonds, a C4-C9 alkynyl group having 1-2 triple bonds, a C(O)R14 group, a OR14 group, a S(O)nR14 group, or a NR9R14 group;

wherein

- R14 is C3-C8 alkyl group, a C3-C8 hydroxyalkyl group, a C3-C8 haloalkyl group, a heteroalkyl group having 4-8 atoms of which 1-2 atoms are heteroatoms, a C3-C8 alkenyl group having 1-2 double bonds, a heteroalkenyl group having 1 double bond and and 5-8 atoms of which 1 atom is a heteroatom, a C3-C8 haloalkenyl group having 1-2 double bonds, or a C3-C8 alkynyl group having 1-2 triple bonds.

3. The compound according to claim 1 or 2, wherein R1 is a a C1-C4 alkyl group, a C1-C4 hydroxyalkyl group, a C1-C4 haloalkyl group, a heteroalkyl group having 3-4 atoms of which 1 is a heteroatom, or an -O-(C1-C4) alkyl group.

4. The compound according to any one of claims 1 to 3, wherein R1 is a C1-C2 alkyl group or an -O-(C1-C2) alkyl group.

5. The compound according to any one of claims 1 to 4, wherein R5 is a C4-C9 alkyl group, a C4-C9 hydroxyalkyl group, a C4-C9 haloalkyl group, a heteroalkyl group having 4-9 atoms of which 1-3 atoms are heteroatoms, a C4-C9 alkenyl group having 1-2 double bonds, a heteroalkenyl group having 1-2 double bonds and 5-9 atoms of which 1-2 atoms are heteroatoms, an -O-(C3-C8) alkyl group, an -O-(C3-C8) hydroxyalkyl group, an -O-(C3-C8) haloalkyl, an -O-(C3-C8) alkenyl group having 1-2 double bonds, an -O-heteroalkyl group having 4-8 atoms of which 1 -2 are heteroatoms, an -O-heteroalkenyl group having 5-8 atoms of which 1 is heteroatom and 1 double bond, an -O-(C3-C8) haloalkenyl group having 1-2 double bonds, an -O-(C3-C8) alkynyl group having 1-2 triple bonds, a -S-(C3-C8) alkyl group, a -S-(C3-C8) hydroxyalkyl group, a -S-(C3-C8) haloalkyl, a -S-heteroalkyl group having 4-8 atoms of which 1 -2 are heteroatoms, a -S-(C3-C8) alkenyl group having 1-2 double bonds, a -S-heteroalkenyl group having 5-8 atoms of which 1 is heteroatom and 1 double bond, a -S-(C3-C8) haloalkenyl group having 1-2 double bonds, or a -S-(C3-C8) alkynyl group having 1-2 triple bonds.

6. The compound according to any one of claims 1 to 5, wherein R5 is a C5-C8 straight chain alkyl group, a C6-C8 alkenyl group having 1 double bond, an -O-(C4-C6) alkyl group, an -O-(C4-C6) hydroxyalkyl group, an -O-(C4-C6) haloalkyl group, an -O-heteroalkyl group having 4-6 atoms of which 1 are heteroatoms and the heteroatom is an O, an -O-(C5-C8) alkenyl group having 1 double bond. In some embodiments the double bond is in the ω-3 position. In some embodiments the double bond is in *Z* configuration.

7. The compound according to any one of claims 1 to 6, wherein R2, R3, and R4 are each a hydrogen atom.

8. The compound according to claim 1, wherein

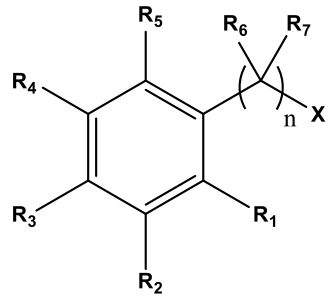
- R1 is a C1-C2 alkyl group, a C1-C2 hydroxyalkyl group, or an -O-(C1-C2) alkyl group;
- R2, R3, and R4 are each a hydrogen atom; and
- R5 is a C4-C9 alkyl group, a heteroalkyl group having 4-9 atoms of which 1-3 atoms are heteroatoms, a C4-C9 alkenyl group having 1-2 double bonds, a heteroalkenyl group having 1-2 double bonds and 5-9 atoms of which 1-2 atoms are heteroatoms, an -O-(C3-C8) alkyl group, -O-(C3-C8) hydroxyalkyl group, an -O-(C3-C8) haloalkyl group, an -O-heteroalkyl group having 4-8 atoms of which 1 -2 are heteroatoms, an -O-(C3-C8) alkenyl group having 1-2 double bonds, an -O-heteroalkenyl group having 5-8 atoms of which 1 is heteroatom and 1 double bond, an -O-(C3-C8) haloalkenyl group having 1-2 double bonds, a -S-(C3-C8) alkyl group, a -S-heteroalkyl group

having 4-8 atoms of which 1 -2 are heteroatoms, a -S-(C3-C8) alkenyl group having 1-2 double bonds, or a -S-heteroalkenyl group having 5-8 atoms of which 1 is heteroatom and 1 double bond.

9. The compound according to claim 1, wherein

- R1 is a C1-C2 alkyl group or an -O-(C1-C2) alkyl group;
- R2, R3, and R4 are each a hydrogen atom; and
- R5 is a C5-C8 straight chain alkyl group, a C6-C8 alkenyl group having 1 double bond, an -O-(C4-C6) alkyl group, an -O-(C4-C6) hydroxyalkyl group, an -O-(C4-C6) haloalkyl group, an -O-heteroalkyl group having 4-6 atoms of which 1 are heteroatoms and the heteroatom is an O, an -O-(C5-C8) alkenyl group having 1 double bond.

10. A compound of formula (I):



(I),

wherein

- R1 is a C1-C12 alkyl group, a C1-C12 hydroxyalkyl group, a C1-C12 haloalkyl group, a heteroalkyl group having 3-12 atoms of which 1-4 atoms are heteroatoms, a C3-C12 alkenyl group having 1-3 double bonds, a heteroalkenyl group having 1-3 double bonds and 5-12 atoms of which 1-3 atoms are heteroatoms, a C3-C12 haloalkenyl group having 1-3 double bonds, a C3-C12 alkynyl group having 1-3 triple bonds, a C(O)R8 group, a OR8 group, a S(O)nR8 group or a NR8R9 group, a phenyl group, or a benzyl group;
- R2 and R4 are the same or different and are independently chosen from a hydrogen atom and a halogen atom,
- R3 is a C4-C12 alkyl group, a C4-C12 hydroxyalkyl group, a C4-C12 haloalkyl group, a heteroalkyl group having 4-12 atoms of which 1-4 atoms are heteroatoms, a C4-C12 alkenyl group having 1-3 double bonds, a heteroalkenyl group having 1-3 double bonds and 5-12 atoms of which 1-3 atoms are heteroatoms, a C4-C12 haloalkenyl group having 1-3 double bonds, a C4-C12 alkynyl group having 1-3 triple bonds, a C(O)R10 group, a OR10 group, a S(O)nR10 group, or a NR9R10 group;

- R5 is a hydrogen atom, a halogen atom, a C1-C12 alkyl group, a C1-C12 hydroxyalkyl group, a C1-C12 haloalkyl group, a heteroalkyl group having 3-12 atoms of which 1-4 atoms are heteroatoms, a C3-C12 alkenyl group having 1-3 double bonds, a heteroalkenyl group having 1-3 double bonds and 5-12 atoms of which 1-3 atoms are heteroatoms, a C3-C12 haloalkenyl group having 1-3 double bonds, a C3-C12 alkynyl group having 1-3 triple bonds, a C(O)R8 group, a OR8 group, a S(O)nR8 group or a NR8R9 group, a phenyl group, or a benzyl group;
- with the proviso that if R1 is a haloalkyl group, a C1-C4 alkyl group, a SR11 group or a NR12R13 group and R5 is a hydrogen atom or a OR11 group, then R3 is not a C4-C6 alkyl group, a C4-C6 alkenyl group, C4-C6 alkynyl group, or a C4-C6 alkyl-Y- group;
- with the proviso that if R1 is a OR11 group and R5 is a hydrogen atom, a haloalkyl group, a C1-C4 alkyl group, a OR11 group, a SR11 group or a NR12R13 group, then R3 is not a C4-C6 alkyl group, a C4-C6 alkenyl group, C4-C6 alkynyl group, or a C4-C6 alkyl-Y- group;
- R6 and R7 are the same or different and are independently chosen from a hydrogen atom and an C1-C6 alkyl group, wherein R6 and R7 together can form a cycloalkyl group, such as cyclopropane, cyclobutane, cyclopentane, or cyclohexane;
- R8 is a C1-C11 alkyl group, a C2-C11 hydroxyalkyl group, a C2-C11 haloalkyl group, a heteroalkyl group having 4-11 atoms of which 1-3 atoms are heteroatoms, a C3-C11 alkenyl group having 1-3 double bonds, a heteroalkenyl group having 1-3 double bonds and 5-11 atoms of which 1-3 atoms are heteroatoms, a haloalkenyl group having 1-3 double bonds, or a C3-C11 alkynyl group having 1-3 triple bonds;
- R9 is a hydrogen atom or a C1-C11 alkyl group;
- R10 is C3-C11 alkyl group, a C3-C11 hydroxyalkyl group, a C3-C11 haloalkyl group, a heteroalkyl group having 4-11 atoms of which 1-3 atoms are heteroatoms, a C3-C11 alkenyl group having 1-3 double bonds, a heteroalkenyl group having 1-3 double bonds and 5-11 atoms of which 1-3 atoms are heteroatoms, a C3-C11 haloalkenyl group having 1-3 double bonds, or a C3-C11 alkynyl group having 1-3 triple bonds;
- R11 is a C1-C4 alkyl group;
- R12 and R13 are independently chosen from a hydrogen atom and a C1-C4 alkyl group;
- X is a hydroxymethyl or carboxylic acid or a derivative thereof, wherein the derivative is a carboxylate, such as a carboxylic ester, a glyceride, an anhydride, a carboxamide, or a phospholipid, or a prodrug thereof;
- Y is an oxygen atom, a sulphur atom, or a NR12R13 group;
- m is 3 or 4; and

- n is 0 ,1 or 2;

or a pharmaceutically acceptable salt, solvate, solvate of such salt, or prodrug thereof.

11. The compound according to claim 25, wherein

- R1 is a C1-C4 alkyl group, a C1-C4 hydroxyalkyl group, a C1-C4 haloalkyl group, a heteroalkyl group having 3-4 atoms of which 1 atom is a heteroatom, or a OR11 group;
- R3 is a C4-C9 alkyl group, a C4-C9 hydroxyalkyl group, a C4-C9 haloalkyl group, a heteroalkyl group having 4-9 atoms of which 1-3 atoms are heteroatoms, a C4-C9 alkenyl group having 1-2 double bonds, a heteroalkenyl group having 1-2 double bonds and 5-9 atoms of which 1-2 atoms are heteroatoms, a C4-C9 haloalkenyl group having 1-2 double bonds, a C4-C9 alkynyl group having 1-2 triple bonds, a C(O)R14 group, a OR14 group, a S(O)nR14 group, or a NR9R14 group; and
- R5 is a hydrogen atom, a halogen atom, a C1-C4 alkyl group, a C1-C4 hydroxyalkyl group, a C1-C4 haloalkyl group, a heteroalkyl group having 3-4 atoms of which 1 atom is a heteroatom, or a OR11 group;
- with the proviso that if R1 is a haloalkyl group or a C1-C4 alkyl group and R5 is a hydrogen atom or a OR11 group, then R3 is not a C4-C6 alkyl group, a C4-C6 alkenyl group, a C4-C6 alkynyl group or a C4-C6 alkyl-Y- group; and
- with the proviso that if R1 is a OR11 group and R5 is a hydrogen atom, a haloalkyl group, a C1-C4 alkyl group, or a OR11 group, then R3 is not a C4-C6 alkyl group, a C4-C6 alkenyl group, C4-C6 alkynyl group, or a C4-C6 alkyl-Y- group;

wherein

- R14 is C3-C8 alkyl group, a C3-C8 hydroxyalkyl group, a C3-C8 haloalkyl group, a heteroalkyl group having 4-8 atoms of which 1-2 atoms are heteroatoms, a C3-C8 alkenyl group having 1-2 double bonds, a heteroalkenyl group having 1 double bond and 4-8 atoms of which 1 atom is a heteroatom, a C3-C8 haloalkenyl group having 1-2 double bonds, or a C3-C8 alkynyl group having 1-2 triple bonds.

12. The compound according to claim 25, wherein

- R1 is a C1-C4 alkyl group, a C1-C4 hydroxyalkyl group, a C1-C4 haloalkyl group, a heteroalkyl group having 3-4 atoms of which 1 is a heteroatom;
- R3 is a C4-C9 alkyl group, a C4-C9 hydroxyalkyl group, a C4-C9 haloalkyl group, a heteroalkyl group having 4-9 atoms of which 1-3 atoms are heteroatoms, a C4-C9 alkenyl group having 1-2 double bonds, a heteroalkenyl group having 1-2 double bonds and 5-9 atoms of which 1-2 atoms are heteroatoms, a C4-C9 alkynyl group having 1-2 triple bonds, an -O-(C3-C8) alkyl group, an -

O-(C3-C8) hydroxyalkyl group, an -O-(C3-C8) haloalkyl, an -O-heteroalkyl group having 4-8 atoms of which 1 -2 are heteroatoms, an -O-(C3-C8) alkenyl group having 1-2 double bonds, an -O-heteroalkenyl group having 5-8 atoms of which 1 is heteroatom and 1 double bond, an -O-(C3-C8) haloalkenyl group having 1-2 double bonds, an -O-(C3-C8) alkynyl group having 1-2 triple bonds, a -S-(C3-C8) alkyl group, a -S-(C3-C8) hydroxyalkyl group, a -S-(C3-C8) haloalkyl, a -S-heteroalkyl group having 4-8 atoms of which 1 -2 are heteroatoms, a -S-(C3-C8) alkenyl group having 1-2 double bonds, a -S-heteroalkenyl group having 5-8 atoms of which 1 is heteroatom and 1 double bond, a -S-(C3-C8) haloalkenyl group having 1-2 double bonds, or a -S-(C3-C8) alkynyl group having 1-2 triple bonds; and

- R5 is a C1-C4 alkyl group, a C1-C4 hydroxyalkyl group, a C1-C4 haloalkyl group, a heteroalyl group having 3-4 atoms of which 1 atom is a heteroatom.

13. The compound according to claim 25, wherein

- R1 is a heteroalkyl group having 3-4 atoms of which 1 is a heteroatom;
- R3 is a C4-C9 alkyl group, a C4-C9 hydroxyalkyl group, a C4-C9 haloalkyl group, a heteroalkyl group having 4-9 atoms of which 1-3 atoms are heteroatoms, a C4-C9 alkenyl group having 1-2 double bonds, a heteroalkenyl group having 1-2 double bonds and 5-9 atoms of which 1-2 atoms are heteroatoms, a C4-C9 alkynyl group having 1-2 triple bonds, an -O-(C3-C8) alkyl group, an -O-(C3-C8) hydroxyalkyl group, an -O-(C3-C8) haloalkyl, an -O-heteroalkyl group having 4-8 atoms of which 1 -2 are heteroatoms, an -O-(C3-C8) alkenyl group having 1-2 double bonds, an -O-heteroalkenyl group having 5-8 atoms of which 1 is heteroatom and 1 double bond, an -O-(C3-C8) haloalkenyl group having 1-2 double bonds, an -O-(C3-C8) alkynyl group having 1-2 triple bonds, a -S-(C3-C8) alkyl group, a -S-(C3-C8) hydroxyalkyl group, a -S-(C3-C8) haloalkyl, a -S-heteroalkyl group having 4-8 atoms of which 1 -2 are heteroatoms, a -S-(C3-C8) alkenyl group having 1-2 double bonds, a -S-heteroalkenyl group having 5-8 atoms of which 1 is heteroatom and 1 double bond, a -S-(C3-C8) haloalkenyl group having 1-2 double bonds, or a -S-(C3-C8) alkynyl group having 1-2 triple bonds; and
- R5 is a hydrogen atom or an -O-(C1-C4) alkyl group.

14. The compound according to claim 25

- R1 is a C1-C2 alkyl group or an -O-(C1-C2) alkyl group;
- R3 is a heteroalkyl group having 4-9 atoms of which 1-3 atoms are heteroatoms, a heteroalkenyl group having 1-2 double bonds and 5-9 atoms of which 1-2 atoms are heteroatoms, an -O-heteroalkyl group having 4-8 atoms of which 1 -2 are heteroatoms, an -O-(C4-C8) alkenyl group having 1 double bond and the double bond is in the ω-3 position, an -O-heteroalkenyl group

having 5-8 atoms of which 1 is heteroatom and 1 double bond and the double bond in is in the ω-3 position; and

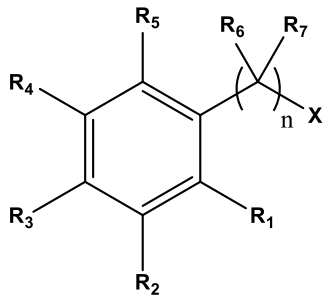
- R5 is a hydrogen atom, a C1-C2 alkyl group, or an -O-(C1-C4) alkyl group.

15. The compound according to any one of claims 25 to 29, wherein R2 and R4 are each a hydrogen atom.

16. The compound according to claim 25, wherein

- R1 is a C1-C2 alkyl group or an -O-(C1-C2) alkyl group;
- R3 is an -O-(C4-C8) alkenyl group having 1 double bond and the double bond is in the ω-3 position;
- R2 and R4 are both hydrogen atoms;
- R5 is a hydrogen atom, a C1-C2 alkyl group, or an -O-(C1-C4) alkyl group
- n is 0; and
- X is a carboxylic acid.

17. A compound of formula (I):



(I),

wherein

- R1 is a C1-C12 alkyl group, a C1-C12 hydroxyalkyl group, a C1-C12 haloalkyl group, a heteroalkyl group having 3-12 atoms of which 1-4 atoms are heteroatoms, a C3-C12 alkenyl group having 1-3 double bonds, a heteroalkenyl group having 1-3 double bonds and 5-12 atoms of which 1-3 atoms are heteroatoms, a C3-C12 haloalkenyl group having 1-3 double bonds, a C3-C12 alkynyl group having 1-3 triple bonds, a C(O)R8 group, a OR8 group, a S(O)nR8 group or a NR8R9 group, a phenyl group, or a benzyl group;
- R2 and R3 are the same or different and are independently chosen from a hydrogen atom and a halogen atom;
- R4 is a C4-C12 alkyl group, a C4-C12 hydroxyalkyl group, a C4-C12 haloalkyl group, a heteroalkyl group having 4-12 atoms of which 1-4 atoms are heteroatoms, a C4-C12 alkenyl group having 1-3 double bonds, a heteroalkenyl group having 1-3 double bonds and 5-12 atoms

of which 1-3 atoms are heteroatoms, a C4-C12 haloalkenyl group having 1-3 double bonds, a C4-C12 alkynyl group having 1-3 triple bonds, a C(O)R10 group, a OR10 group, a S(O)nR10 group, or a NR9R10 group;

- R5 is a hydrogen atom, a halogen atom, a C1-C12 alkyl group, a C1-C12 hydroxyalkyl group, a C1-C12 haloalkyl group, a heteroalkyl group having 3-12 atoms of which 1-4 atoms are heteroatoms, a C3-C12 alkenyl group having 1-3 double bonds, a heteroalkenyl group having 1-3 double bonds and 5-12 atoms of which 1-3 atoms are heteroatoms, a C3-C12 haloalkenyl group having 1-3 double bonds, a C3-C12 alkynyl group having 1-3 triple bonds, a C(O)R8 group, a OR8 group, a S(O)nR8 group or a NR8R9 group, a phenyl group, or a benzyl group;
- with the proviso that if R1 in a haloalkyl group, a C1-C4 alkyl group, a OR11 group, a SR11 group, or a NR12R13 group and R5 is a hydrogen atom or a OR11 group, then R4 is not a C4-C6 alkyl group, a C4-C6 alkenyl group, C4-C6 alkynyl group, or a C4-C6 alkyl-Y- group;
- R6 and R7 are the same or different and are independently chosen from a hydrogen atom and an C1-C6 alkyl group, wherein R6 and R7 together can form a cycloalkyl group, such as cyclopropane, cyclobutane, cyclopentane, or cyclohexane;
- R8 is a C1-C11 alkyl group, a C2-C11 hydroxyalkyl group, a C2-C11 haloalkyl group, a heteroalkyl group having 4-11 atoms of which 1-3 atoms are heteroatoms, a C3-C11 alkenyl group having 1-3 double bonds, a heteroalkenyl group having 1-3 double bonds and 5-11 atoms of which 1-3 atoms are heteroatoms, a haloalkenyl group having 1-3 double bonds, or a C3-C11 alkynyl group having 1-3 triple bonds;
- R9 is a hydrogen atom or a C1-C11 alkyl group;
- R10 is C3-C11 alkyl group, a C3-C11 hydroxyalkyl group, a C3-C11 haloalkyl group, a heteroalkyl group having 4-11 atoms of which 1-3 atoms are heteroatoms, a C3-C11 alkenyl group having 1-3 double bonds, a heteroalkenyl group having 1-3 double bonds and 5-11 atoms of which 1-3 atoms are heteroatoms, a C3-C11 haloalkenyl group having 1-3 double bonds, or a C3-C11 alkynyl group having 1-3 triple bonds;
- R11 is a C1-C4 alkyl group;
- R12 and R13 are independently chosen from a hydrogen atom and a C1-C4 alkyl group;
- X is a hydroxymethyl or a carboxylic acid or a derivative thereof, wherein the derivative is a carboxylate, such as a carboxylic ester, a glyceride, an anhydride, a carboxamide, or a phospholipid, or a prodrug thereof;
- Y is an oxygen atom, a sulphur atom, or a NR12R13 group;
- m is 3 or 4; and

- n is 0 ,1 or 2;

or a pharmaceutically acceptable salt, solvate, solvate of such salt, or prodrug thereof.

18. The compound according to claim 32, wherein

- R1 is a C1-C4 alkyl group, a C1-C4 hydroxyalkyl group, a C1-C4 haloalkyl group, a heteroalkyl group with 3-4 atoms of which 1 atom is a heteroatom, or a OR11 group;
- R4 is a C4-C9 alkyl group, a C4-C9 hydroxyalkyl group, a C4-C9 haloalkyl group, a heteroalkyl group having 4-9 atoms of which 1-3 atoms are heteroatoms, a C4-C9 alkenyl group having 1-2 double bonds, a heteroalkenyl group having 1-2 double bonds and 5-9 atoms of which 1-2 atoms are heteroatoms, a C4-C9 haloalkenyl group having 1-2 double bonds, a C4-C9 alkynyl group having 1-2 triple bonds, a C(O)R14 group, a OR14 group, a S(O)nR14 group, or a NR9R14 group; and
- R5 is a hydrogen atom, a halogen atom, C1-C4 alkyl group, a C1-C4 hydroxyalkyl group, a C1-C4 haloalkyl group, a heteroalkyl group having 3-4 atoms of which 1 atom is a heteroatom, or a OR11 group;
- with the proviso that if R1 is a haloalkyl group, a C1-C4 alkyl group, or a OR11 group and R5 is a hydrogen atom or a OR11 group, then R4 is not a C4-C6 alkyl group, a C4-C6 alkenyl group, a C4-C6 alkynyl group, or a C4-C6 alkyl-Y- group;

wherein

- R14 is C3-C8 alkyl group, a C3-C8 hydroxyalkyl group, a C3-C8 haloalkyl group, a heteroalkyl group having 4-8 atoms of which 1-2 atoms are heteroatoms, a C3-C8 alkenyl group having 1-2 double bonds, a heteroalkenyl group having 1 double bond and 5-8 atoms of which 1 atom is a heteroatom, a C3-C8 haloalkenyl group having 1-2 double bonds, or a C3-C8 alkynyl group having 1-2 triple bonds.

19. The compound according to claim 32, wherein

- R1 is a C1-C4 alkyl group, a C1-C4 hydroxyalkyl group, a C1-C4 haloalkyl group, a heteroalkyl group having 3-4 atoms of which 1 is a heteroatom, a -O-(C1-C4) alkyl group, or a phenyl group;
- R4 is a C4-C9 alkyl group, a C4-C9 hydroxyalkyl group, a C4-C9 haloalkyl group, a heteroalkyl group having 4-9 atoms of which 1-3 atoms are heteroatoms, a C4-C9 alkenyl group having 1-2 double bonds, a heteroalkenyl group having 1-2 double bonds and 5-9 atoms of which 1-2 atoms are heteroatoms, a C4-C9 alkynyl group having 1-2 triple bonds, an -O-(C3-C8) alkyl group, an -O-(C3-C8) hydroxyalkyl group, an -O-(C3-C8) haloalkyl, an -O-heteroalkyl group having 4-8 atoms of which 1 -2 are heteroatoms, an -O-(C3-C8) alkenyl group having 1-2 double bonds, an -O-heteroalkenyl group having 5-8 atoms of which 1 is heteroatom and 1 double bond, an -O-(C3-

C8) haloalkenyl group having 1-2 double bonds, an -O-(C3-C8) alkynyl group having 1-2 triple bonds, a -S-(C3-C8) alkyl group, a -S-(C3-C8) hydroxyalkyl group, a -S-(C3-C8) haloalkyl, a -S-heteroalkyl group having 4-8 atoms of which 1 -2 are heteroatoms, a -S-(C3-C8) alkenyl group having 1-2 double bonds, a -S-heteroalkenyl group having 5-8 atoms of which 1 is heteroatom and 1 double bond, a -S-(C3-C8) haloalkenyl group having 1-2 double bonds, a -S-(C3-C8) alkynyl group having 1-2 triple bonds, a -C(O)-(C3-C8) alkyl group, a -S(O)-(C3-C8) alkyl group, or a -S(O)2-(C3-C8) alkyl group,; and

- R5 is a C1-C4 alkyl group, a C1-C4 hydroxyalkyl group, a C1-C4 haloalkyl group, a heteroalyl group having 3-4 atoms of which 1 atom is a heteroatom.

20. The compound according to claim 32, wherein

- R1 is a heteroalkyl group having 3-4 atoms of which 1 atom is a heteroatom or a phenyl group;
- R4 is a C4-C9 alkyl group, a C4-C9 hydroxyalkyl group, a C4-C9 haloalkyl group, a heteroalkyl group having 4-9 atoms of which 1-3 atoms are heteroatoms, a C4-C9 alkenyl group having 1-2 double bonds, a heteroalkenyl group having 1-2 double bonds and 5-9 atoms of which 1-2 atoms are heteroatoms, a C4-C9 alkynyl group having 1-2 triple bonds, an -O-(C3-C8) alkyl group, an -O-(C3-C8) hydroxyalkyl group, an -O-(C3-C8) haloalkyl, an -O-heteroalkyl group having 4-8 atoms of which 1 -2 are heteroatoms, an -O-(C3-C8) alkenyl group having 1-2 double bonds, an -O-heteroalkenyl group having 5-8 atoms of which 1 is heteroatom and 1 double bond, an -O-(C3-C8) haloalkenyl group having 1-2 double bonds, an -O-(C3-C8) alkynyl group having 1-2 triple bonds, a -S-(C3-C8) alkyl group, a -S-(C3-C8) hydroxyalkyl group, a -S-(C3-C8) haloalkyl, a -S-heteroalkyl group having 4-8 atoms of which 1 -2 are heteroatoms, a -S-(C3-C8) alkenyl group having 1-2 double bonds, a -S-heteroalkenyl group having 5-8 atoms of which 1 is heteroatom and 1 double bond, a -S-(C3-C8) haloalkenyl group having 1-2 double bonds, a -S-(C3-C8) alkynyl group having 1-2 triple bonds, a -C(O)-(C3-C8) alkyl group, a -S(O)-(C3-C8) alkyl group, or a -S(O)2-(C3-C8) alkyl group,; and
- R5 is a hydrogen atom, a halogen atom, or a -O-(C1-C4) alkyl group.

21. The compound according to claim 32, wherein

- R1 is a C1-C4 alkyl group, a C1-C4 haloalkyl group, or a -O-(C1-C4) alkyl group;
- R4 is a C4-C9 alkyl group, a C4-C9 hydroxyalkyl group, a C4-C9 haloalkyl group, a heteroalkyl group having 4-9 atoms of which 1-3 atoms are heteroatoms, a C4-C9 alkenyl group having 1-2 double bonds, a heteroalkenyl group having 1-2 double bonds and 5-9 atoms of which 1-2 atoms are heteroatoms, a C4-C9 alkynyl group having 1-2 triple bonds, an -O-(C3-C8) alkyl group, an -

O-(C3-C8) hydroxyalkyl group, an -O-(C3-C8) haloalkyl, an -O-heteroalkyl group having 4-8 atoms of which 1 -2 are heteroatoms, an -O-(C4-C8) alkenyl group having 1-2 double bonds, an -O-heteroalkenyl group having 5-8 atoms of which 1 is heteroatom and 1 double bond; and

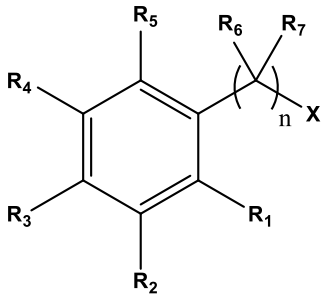
- R5 is a C1-C4 alkyl group or a C1-C4 haloalkyl group.

22. The compound according to any one of claims 32 to 36, wherein R2 and R3 are each a hydrogen atom.

23. The compound according to claim 32, wherein

- R1 is a C1-C2 alkyl group or a -O-(C1-C2) alkyl group;
- R4 is a an -O-(C4-C8) alkenyl group having 1 double bond and the double bond is in the ω-3 position or a -C(O)-(C3-C8) alkyl group;
- R5 is a hydrogen atom, a halogen atom, a C1-C2 alkyl group, or a -O-(C1-C2) alkyl group;
- R2 and R3 are each a hydrogen atom;
- n is 0; and
- X is a carboxylic acid.

24. A compound of formula (I):



(I),

wherein

- R1 is a C1-C12 alkyl group, a C1-C12 hydroxyalkyl group, a C1-C12 haloalkyl group, a heteroalkyl group having 3-12 atoms of which 1-4 atoms are heteroatoms, a C3-C12 alkenyl group having 1-3 double bonds, a heteroalkenyl group having 1-3 double bonds and 5-12 atoms of which 1-3 atoms are heteroatoms, a C3-C12 haloalkenyl group having 1-3 double bonds, a C3-C12 alkynyl group having 1-3 triple bonds, a C(O)R8 group, a OR8 group, a S(O)nR8 group, a NR8R9 group, or a phenyl group,
- R2 is a C4-C12 alkyl group, a C4-C12 hydroxyalkyl group, a C4-C12 haloalkyl group, a heteroalkyl group having 4-12 atoms of which 1-4 atoms are heteroatoms, a C4-C12 alkenyl group having 1-3 double bonds, a heteroalkenyl group having 1-3 double bonds and 5-12 atoms of which 1-3 atoms are heteroatoms, a C4-C12 haloalkenyl group having 1-3 double bonds, a C4-

C12 alkynyl group having 1-3 triple bonds, a C(O)R10 group, a OR10 group, a S(O)nR10 group, or a NR9R10 group;

- R3 is a hydrogen atom or a halogen atom;
- R4 is a C4-C12 alkyl group, a C4-C12 hydroxyalkyl group, a C4-C12 haloalkyl group, a heteroalkyl group having 4-12 atoms of which 1-4 atoms are heteroatoms, a C4-C12 alkenyl group having 1-3 double bonds, a heteroalkenyl group having 1-3 double bonds and 5-12 atoms of which 1-3 atoms are heteroatoms, a C4-C12 haloalkenyl group having 1-3 double bonds, a C4-C12 alkynyl group having 1-3 triple bonds, a C(O)R10 group, a OR10 group, a S(O)nR10 group, or a NR9R10 group;
- R5 is a hydrogen atom, a halogen atom, a C1-C12 alkyl group, a C1-C12 hydroxyalkyl group, a C1-C12 haloalkyl group, a heteroalkyl group having 3-12 atoms of which 1-4 atoms are heteroatoms, a C3-C12 alkenyl group having 1-3 double bonds, a heteroalkenyl group having 1-3 double bonds and 5-12 atoms of which 1-3 atoms are heteroatoms, a C3-C12 haloalkenyl group having 1-3 double bonds, a C3-C12 alkynyl group having 1-3 triple bonds, a C(O)R8 group, a OR8 group, a S(O)nR8 group, a NR8R9 group, or a phenyl group;
- R6 and R7 are the same or different and are independently chosen from a hydrogen atom and an C1-C6 alkyl group, wherein R6 and R7 together can form a cycloalkyl group, such as cyclopropane, cyclobutene, cyclopentane, or cyclohexane;
- R8 is a C1-C11 alkyl group, a C2-C11 hydroxyalkyl group, a C2-C11 haloalkyl group, a heteroalkyl group having 4-11 atoms of which 1-3 atoms are heteroatoms, a C3-C11 alkenyl group having 1-3 double bonds, a heteroalkenyl group having 1-3 double bonds and 5-11 atoms of which 1-3 atoms are heteroatoms, a haloalkenyl group having 1-3 double bonds, or a C3-C11 alkynyl group having 1-3 triple bonds;
- R9 is a hydrogen atom or a C1-C11 alkyl group;
- R10 is C3-C11 alkyl group, a C3-C11 hydroxyalkyl group, a C3-C11 haloalkyl group, a heteroalkyl group having 4-11 atoms of which 1-3 atoms are heteroatoms, a C3-C11 alkenyl group having 1-3 double bonds, a heteroalkenyl group having 1-3 double bonds and 5-11 atoms of which 1-3 atoms are heteroatoms, a C3-C11 haloalkenyl group having 1-3 double bonds, or a C3-C11 alkynyl group having 1-3 triple bonds;
- R11 is a C1-C4 alkyl group;
- R12 and R13 are independently chosen from a hydrogen atom and a C1-C4 alkyl group;

- X is a hydroxymethyl or a carboxylic acid or a derivative thereof, wherein the derivative is a carboxylate, such as a carboxylic ester, a glyceride; an anhydride, a carboxamide, or a phospholipid, or a prodrug thereof;
- Y is an oxygen atom, a sulphur atom, or a NR12R13 group;
- m is 3 or 4; and
- n is 0 ,1 or 2;

or a pharmaceutically acceptable salt, solvate, solvate of such salt, or prodrug thereof.

25. The compound according to claim 39, wherein

- R1 is a C1-C4 alkyl group, a C1-C4 hydroxyalkyl group, a C1-C4 haloalkyl group, a heteroalkyl group having 3-4 atoms of which 1 atom is a heteroatom, or a OR11 group;
- R2 is a C4-C9 alkyl group, a C4-C9 hydroxyalkyl group, a C4-C9 haloalkyl group, a heteroalkyl group having 4-9 atoms of which 1-3 atoms are heteroatoms, a C4-C9 alkenyl group having 1-2 double bonds, a heteroalkenyl group having 5-9 atoms of which 1-2 atoms are heteroatoms and 1-2 double bonds, a C4-C9 haloalkenyl group having 1-2 double bonds, a C4-C9 alkynyl group having 1-2 triple bonds, a C(O)R14 group, a OR14 group, a S(O)nR14 group, or a NR9R14 group;
- R4 is a C4-C9 alkyl group, a C4-C9 hydroxyalkyl group, a C4-C9 haloalkyl group, a heteroalkyl group having 4-9 atoms of which 1-3 atoms are heteroatoms, a C4-C9 alkenyl group having 1-2 double bonds, a heteroalkenyl group having 1-2 double bonds and 5-9 atoms of which 1-2 atoms are heteroatoms, a C4-C9 haloalkenyl group having 1-2 double bonds, a C4-C9 alkynyl group having 1-2 triple bonds, a C(O)R14 group, a OR14 group, a S(O)nR14 group, or a NR9R14 group; and
- R5 is a hydrogen atom, a halogen atom, a C1-C4 alkyl group, a C1-C4 hydroxyalkyl group, a C1-C4 haloalkyl group, a heteroalkyl group having 3-4 atoms of which 1 atom is a heteroatom, or a OR11 group;

wherein

- R14 is C3-C8 alkyl group, a C3-C8 hydroxyalkyl group, a C3-C8 haloalkyl group, a heteroalkyl group having 4-8 atoms of which 1-2 atoms are heteroatoms, a C3-C8 alkenyl group having 1-2 double bonds, a heteroalkenyl group having 1 double bond and and 5-8 atoms of which 1 atom is a heteroatom, a C3-C8 haloalkenyl group having 1-2 double bonds, or a C3-C8 alkynyl group having 1-2 triple bonds.

26. The compound according to claim 39 or 40, wherein R2 and R4 are the same or different and are independently chosen from a C4-C9 alkyl group, a C4-C9 hydroxyalkyl group, a C4-C9 haloalkyl

group, a heteroalkyl group having 4-9 atoms of which 1-3 atoms are heteroatoms, a C4-C9 alkenyl group having 1-2 double bonds, a heteroalkenyl group having 1-2 double bonds and 5-9 atoms of which 1-2 atoms are heteroatoms, an -O-(C3-C8) alkyl group, an -O-(C3-C8) hydroxyalkyl group, an -O-(C3-C8) haloalkyl, an -O-(C3-C8) alkenyl group having 1-2 double bonds, an -O-heteroalkyl group having 4-8 atoms of which 1 -2 are heteroatoms, an -O-heteroalkenyl group having 5-8 atoms of which 1 is heteroatom and 1 double bond, an -O-(C3-C8) haloalkenyl group having 1-2 double bonds, an -O-(C3-C8) alkynyl group having 1-2 triple bonds, a -S-(C3-C8) alkyl group, a -S-(C3-C8) hydroxyalkyl group, a -S-(C3-C8) haloalkyl, a -S-heteroalkyl group having 4-8 atoms of which 1 -2 are heteroatoms, a -S-(C3-C8) alkenyl group having 1-2 double bonds, a -S-heteroalkenyl group having 5-8 atoms of which 1 is heteroatom and 1 double bond, a -S-(C3-C8) haloalkenyl group having 1-2 double bonds, or a -S-(C3-C8) alkynyl group having 1-2 triple bonds.

27. The compound according to claim 39 or 40, wherein R2 and R4 are the same or different and are independently chosen from a C4-C8 straight chain alkyl group, a C6-C8 alkenyl group having 1 double bond, an -O-(C4-C6) alkyl group, an -O-(C4-C6) hydroxyalkyl group, an -O-(C4-C6) haloalkyl group, an -O-heteroalkyl group having 4-6 atoms of which 1 are heteroatoms and the heteroatom is an O, or an -O-(C5-C8) alkenyl group having 1 double bond. In some embodiments, the double bond is in the ω-3 position.

28. The compound according to any one of claims 39 to 42, wherein R1 and R5 are the same or different and are independently chosen from an -O-(C1-C4) alkyl group or an -O-(C1-C4) alkyl group.

29. The compound according to any one of claims 39 to 42, wherein R1 is a C1-C4 alkyl group or an -O-(C1-C4) alkyl group and R5 is a hydrogen atom

30. The compound according to any one of claims claim 39 to 42, wherein R5 is a hydrogen atom.

31. The compound according to any one of claims 39 to 45, wherein R3 is a hydrogen atom.

32. The compound according to claim 39, wherein

- R1 is a methyl group or -OCH3;
- R2 and R4 are the same or different and are independently chosen from a C4-C8 straight chain alkyl group, an -O-(C4-C6) alkyl group, and an -O-heteroalkyl group having 4-6 atoms of which 1 are heteroatoms and the heteroatom is an O;
- R3 is a hydrogen atom;
- R5 is a hydrogen atom, a methyl group, or -OCH3;
- n is 0; and
- X is a carboxylic acid.