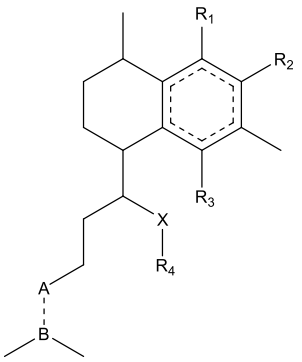
Claims

1. A compound of Formula (**I**),



(**I**)

a geometric isomer, stereoisomer, pharmaceutically acceptable salt or solvate thereof, or a combination thereof,

wherein:

X is CH_2, CHOH or C(O);

R_1 is independently H, OH, $OC_{1\text{-}5}$alkyl, OCH_2Ph, $OC_{2\text{-}5}$alkenyl, $OC_{4\text{-}5}$alkadienyl, $OC(O)C_{1\text{-}5}$alkyl, OC(O)Ph, $OC(O)C_{2\text{-}5}$alkenyl, $OC(O)C_{4\text{-}5}$alkadienyl or =O;

R_2 is independently H, OH, $OC_{1\text{-}5}$alkyl, OCH_2Ph, $OC_{2\text{-}5}$alkenyl, $OC_{4\text{-}5}$alkadienyl, $OC(O)C_{1\text{-}5}$alkyl, OC(O)Ph, $OC(O)C_{2\text{-}5}$alkenyl, $OC(O)C_{4\text{-}5}$alkadienyl or =O;

R_3 is independently H, OH, $OC_{1\text{-}5}$alkyl or $OC(O)C_{1\text{-}5}$alkyl or =O;

and no more than one of R_1, R_2 and R_3 is H;

where R_4 is OH, $OC_{1\text{-}5}$alkyl, OCH_2Ph, $OC_{2\text{-}5}$alkenyl, $OC_{4\text{-}5}$alkadienyl, $OC(O)C_{1\text{-}5}$alkyl, OC(O)Ph, $OC(O)C_{2\text{-}5}$alkenyl or $OC(O)C_{4\text{-}5}$alkadienyl; and

A---B is CH=C or CH_2-CH,

provided that where R_2 is H, X is not CH_2.

2. The compound according to claim 1, wherein:

X is CH_2, CHOH or C(O);

R_1 is independently H, OH, $OC_{1\text{-}5}$alkyl, OCH_2Ph, $OC_{2\text{-}5}$alkenyl, $OC(O)C_{1\text{-}5}$alkyl, OC(O)Ph, $OC(O)C_{2\text{-}5}$alkenyl or =O;

R_2 is independently H, OH, $OC_{1\text{-}5}$alkyl, OCH_2Ph, $OC_{2\text{-}5}$alkenyl, $OC(O)C_{1\text{-}5}$alkyl, OC(O)Ph, $OC(O)C_{2\text{-}5}$alkenyl or =O;

R_3 is independently H, OH, $OC_{1\text{-}5}$alkyl, $OC(O)C_{1\text{-}5}$alkyl or =O;
and no more than one of R_1, R_2 and R_3 is H;
where R_4 is OH, $OC_{1\text{-}5}$alkyl, OCH_2Ph, $OC_{2\text{-}5}$alkenyl, $OC(O)C_{1\text{-}5}$alkyl, OC(O)Ph or $OC(O)C_{2\text{-}5}$alkenyl; and
A---B is CH=C or CH_2-CH.

3. The compound according to claim 1, wherein:
X is CH_2, CHOH or C(O);
R_1 is independently H, OH, $OC_{1\text{-}5}$alkyl, OCH_2Ph, $OC(O)C_{1\text{-}5}$alkyl, OC(O)Ph or =O;
R_2 is independently H, OH, $OC_{1\text{-}5}$alkyl, OCH_2Ph, $OC(O)C_{1\text{-}5}$alkyl, OC(O)Ph or =O;
R_3 is independently H, OH, $OC_{1\text{-}5}$alkyl, $OC(O)C_{1\text{-}5}$alkyl or =O;
and no more than one of R_1, R_2 and R_3 is H;
where R_4 is OH, $OC_{1\text{-}5}$alkyl, OCH_2Ph, $OC(O)C_{1\text{-}5}$alkyl or OC(O)Ph; and
A---B is CH=C or CH_2-CH.

4. The compound according to claim 1, wherein:
X is CH_2, CHOH or C(O);
R_1 is independently H, OH, $OC_{1\text{-}5}$alkyl, $OC(O)C_{1\text{-}5}$alkyl or =O;
R_2 is independently H, OH, $OC_{1\text{-}5}$alkyl, $OC(O)C_{1\text{-}5}$alkyl or =O;
R_3 is independently H, OH, $OC_{1\text{-}5}$alkyl, $OC(O)C_{1\text{-}5}$alkyl or =O;
and no more than one of R_1, R_2 and R_3 is H;
where R_4 is OH, $OC_{1\text{-}5}$alkyl, OCH_2Ph, $OC(O)C_{1\text{-}5}$alkyl or OC(O)Ph; and
A---B is CH=C or CH_2-CH.

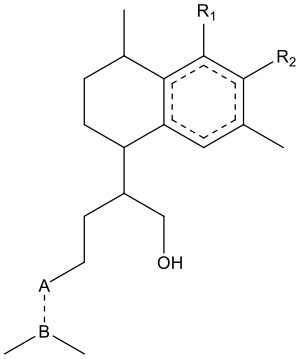
5. The compound according to claim 1, wherein:
X is CH_2;
R_1 is independently H, OH, $OC_{1\text{-}5}$alkyl, $OC(O)C_{1\text{-}5}$alkyl or =O;
R_2 is independently H, OH, $OC_{1\text{-}5}$alkyl, $OC(O)C_{1\text{-}5}$alkyl or =O;
R_3 is independently H, OH, $OC_{1\text{-}5}$alkyl, $OC(O)C_{1\text{-}5}$alkyl or =O;
and no more than one of R_1, R_2 and R_3 is H;
R_4 is OH, $OC_{1\text{-}5}$alkyl, OCH_2Ph, $OC(O)C_{1\text{-}5}$alkyl or OC(O)Ph; and

A---B is CH=C or CH_2-CH.

6. The compound according to claim 1, wherein:
X is CHOH;
R_1 is independently H, OH, $OC_{1\text{-}5}$alkyl, $OC(O)C_{1\text{-}5}$alkyl or =O;
R_2 is independently H, OH, $OC_{1\text{-}5}$alkyl, $OC(O)C_{1\text{-}5}$alkyl or =O;
R_3 is independently H, OH, $OC_{1\text{-}5}$alkyl, $OC(O)C_{1\text{-}5}$alkyl or =O;
and no more than one of R_1, R_2 and R_3 is H;
R_4 is OH, $OC_{1\text{-}5}$alkyl, OCH_2Ph, $OC(O)C_{1\text{-}5}$alkyl or OC(O)Ph; and
A---B is CH=C or CH_2-CH.

7. The compound according to claim 1, wherein:
X is C(O);
R_1 is independently H, OH, $OC_{1\text{-}5}$alkyl, $OC(O)C_{1\text{-}5}$alkyl or =O;
R_2 is independently H, OH, $OC_{1\text{-}5}$alkyl, $OC(O)C_{1\text{-}5}$alkyl or =O;
R_3 is independently H, OH, $OC_{1\text{-}5}$alkyl, $OC(O)C_{1\text{-}5}$alkyl or =O;
and no more than one of R_1, R_2 and R_3 is H;
R_4 is OH, $OC_{1\text{-}5}$alkyl, OCH_2Ph, $OC(O)C_{1\text{-}5}$alkyl or OC(O)Ph; and
A---B is CH=C or CH_2-CH.

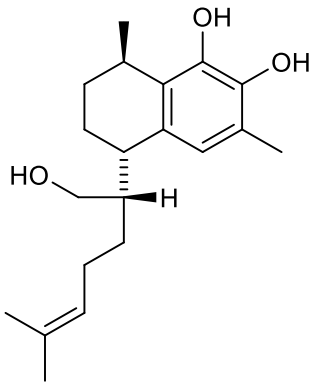
8. The compound according to claim 1, wherein the compound is a compound of Formula (**Ic**):



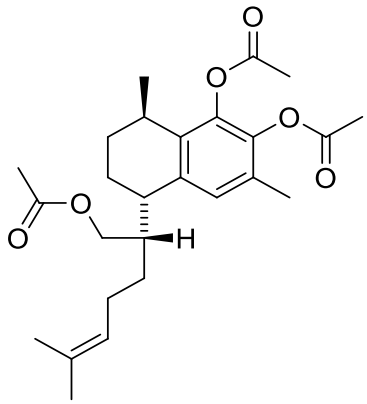
(**Ic**).

9. The compound according to claim 1, wherein A---B is CH=C.

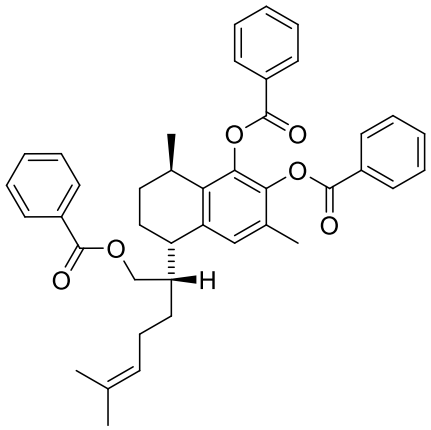
10. The compound according to claim 1, wherein the compound is selected from the group consisting of:



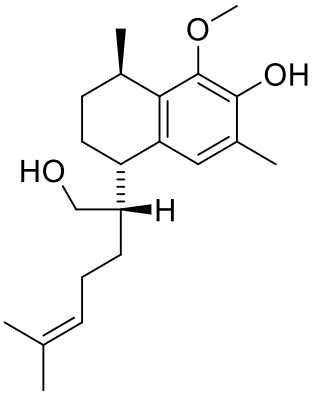
,



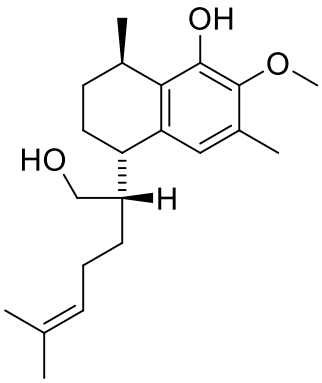
,



,

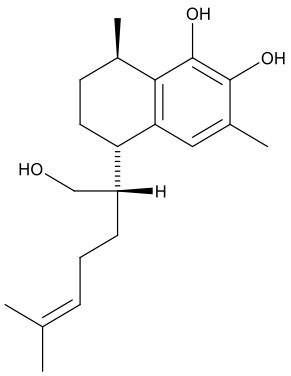


, and



.

11 The compound according to claim 1, wherein the compound is:



.

12. A pharmaceutical composition comprising the compound, geometric isomer, stereoisomer, pharmaceutically acceptable salt thereof, or a mixture thereof according to claim 1 and a pharmaceutically acceptable excipient.