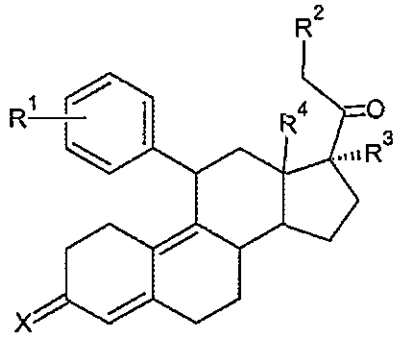
Claims

1. A compound having the general formula:



or a pharmaceutically acceptable salt thereof wherein: R^1 is at the para position and is $-SO_2CH_3$; R^2 is selected from the group consisting of: hydrogen and methoxy; R^3 is acetoxy or hydroxy; R^4 is methyl; and X is =O.

2. A compound or salt thereof in accordance with claim 1 wherein R^2 is hydrogen.

3. A compound or salt thereof in accordance with claim 1 wherein R^2 is methoxy.

4. A compound or salt thereof in accordance with claim 2 wherein R^3 is hydroxy.

5. A compound or salt thereof in accordance with claim 2 wherein R^3 is acetoxy.

6. A compound or salt thereof in accordance with claim 3 wherein R^3 is hydroxy.

7. A compound or salt thereof in accordance with claim 3 wherein R^3 is acetoxy.

8. A pharmaceutical composition comprising a therapeutically effective amount of a compound or salt thereof according to any one of claims 1 to 7 and a pharmaceutically acceptable excipient.

9. The pharmaceutical composition according to claim 8, wherein the pharmaceutical composition is in a form suitable for vaginal administration such as a vaginal suppository, gel or cream.

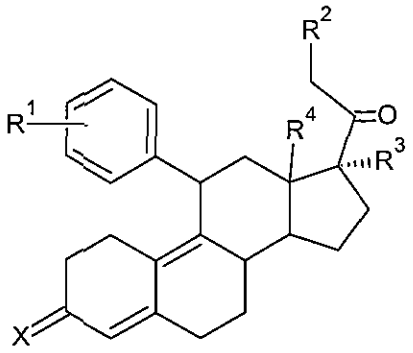
10. Use of a compound or salt thereof according to any one of claims 1 to 7 in the manufacture of a medicament for the treatment of a progesterone-dependent condition selected from the group consisting of endometriosis and pain associated therewith, adenomyosis,

endometriomas of the ovary, dysmenorrhea, uterine fibroids, endometrial hyperproliferation, ovarian cancer, and cervical cancer in a patient in need thereof.

11. The use according to claim 10 wherein the composition is administered orally.

Claims

1. A compound having the general formula:



or a pharmaceutically acceptable salt thereof wherein: R^1 is at the para position and is $-SO_2CH_3$; R^2 is selected from the group consisting of: hydrogen and methoxy; R^3 is acetoxy or hydroxy; R^4 is methyl; and X is =O.

2. A compound or salt thereof in accordance with claim 1 wherein R^2 is hydrogen.

3. A compound or salt thereof in accordance with claim 1 wherein R^2 is methoxy.

4. A compound or salt thereof in accordance with claim 2 wherein R^3 is hydroxy.

5. A compound or salt thereof in accordance with claim 2 wherein R^3 is acetoxy.

6. A compound or salt thereof in accordance with claim 3 wherein R^3 is hydroxy.

7. A compound or salt thereof in accordance with claim 3 wherein R^3 is acetoxy.

8. A pharmaceutical composition comprising a therapeutically effective amount of a compound or salt thereof according to any one of claims 1 to 7 and a pharmaceutically acceptable excipient.

9. The pharmaceutical composition according to claim 8, wherein the pharmaceutical composition is in a form suitable for vaginal administration such as a vaginal suppository, gel or cream.

10. Use of a compound or salt thereof according to any one of claims 1 to 7 in the manufacture of a medicament for the treatment of a progesterone-dependent condition selected from the group consisting of endometriosis and pain associated therewith, adenomyosis,

endometriomas of the ovary, dysmenorrhea, uterine fibroids, endometrial hyperproliferation, ovarian cancer, and cervical cancer in a patient in need thereof.