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ABSTRACT

CYCLOTHIOCARBAMATE DERIVATIVES AS PROGESTERONE RECEPTOR MODULATORS

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The present invention provides compounds which are agonists of the progesterone receptor and have structures (I) or (II) wherein R_1 and R_2 are independent substituents selected from the group of H, optionally substituted C_1 to C_6 alkyl, alkenyl, alkynyl, or alkynyl groups C_3 to C_8 cycloalkyl, aryl, substituted aryl, or heterocyclic groups, or
10 COR^A or $NR^B COR^A$; or R^1 and R^2 are fused to form an optionally substituted 3 to 8 membered Spiro cyclic alkyl or alkenyl ring or a Spiro cyclic ring containing one to three heteroatoms selected from O, S and N; R^A is selected from H, amino, or optionally substituted C_1 to C_3 alkyl, aryl, C_1 to C_3 alkoxy, or C_1 to C_3 aminoalkyl groups; R^B is H, C_1 to C_3 alkyl, or substituted C_1 to C_3 alkyl; R^3 is H, OH, NH_2
15 COR^C , or optionally substituted C_1 to C_6 alkyl, C_3 to C_6 alkenyl, or alkynyl groups; R^C is selected from H or optionally substituted C_1 to C_3 alkyl, aryl, C_1 to C_3 alkoxy, or C_1 to C_3 aminoalkyl groups; Q^1 is S, NR^7 ; or $CR^8 R^9$, R^5 is an optionally trisubstituted benzene ring or an optionally substituted five or six membered heterocyclic ring with 1, 2, or 3 ring heteroatoms selected from the group of O, S, SO,
20 SO_2 or NR^6 ; or a pharmaceutically acceptable salt thereof, as well as methods of using these compounds for contraception and the treatment of progesterone-related maladies.