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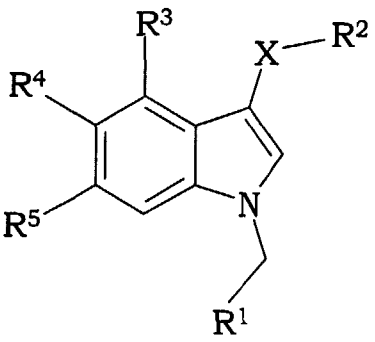
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(54) Title: INDOLES USEFUL IN THE TREATMENT OF ANDROGEN-RECEPTOR RELATED DISEASES



(1)

(57) Abstract: This invention provides non-steroidal compounds with affinity for the androgen receptor and utility for androgen-receptor related treatments, having a structure according to the formula (1) wherein X is S,SO or SO_2; R^1 is a 5- or 6-membered monocyclic, hetero- or homocyclic, saturated or unsaturated ring structure optionally substituted with one or more substituents selected from the group consisting of halogen, CN, (1C-4C)fluoroalkyl, nitro, (1C-4C)alkyl, (1C-4C)alkoxy or (1C-4C)fluoroalkoxy; R^2 is 2-nitrophenyl, 2-cyanophenyl, 2-hydroxymethyl-phenyl, pyridin-2-yl, pyridin-2-yl-N-oxide, 2-benzamide, 2-benzoic acid methyl ester or 2-methoxyphenyl; R^3 is H, halogen or (1C-4C)alkyl; R^4 is H, OH, (1C-4C)alkoxy, or halogen; R^4 is H, OH, (1C-4C)alkoxy, NH_2, CN, halogen, (1C-4C)fluoroalkyl, NO_2, hydroxy(1C-4C)alkyl, CO_2H, CO_2(1C-6C)alkyl, or R^5 is NHR^6, wherein R^6 is (1C-6C)acyl optionally substituted with one or more halogens, $S(O)_2$(1C-4C)alkyl, or $S(O)_2$aryl optionally substituted with (1C-4C)alkyl or one or more halogens, or R^5 is $C(O)N(R^8,R^9)$, wherein R^8 and R^9 each independently are H, (3C-6C)cycloalkyl, or CH_2R^{10}, wherein R^{10} is H, (1C-5C)alkyl, (1C-5C)alkenyl, hydroxy(1C-3C)alkyl, (1C-4C)alkylester of carboxy(1C-4C)alkyl, (1C-3C)alkoxy(1C-3C)alkyl, (mono- or di(1C-4C)alkyl)aminomethyl, (mono- or di(1C-4C)alkyl)aminocarbonyl, or a 3-, 4-, 5- or 6-membered monocyclic, homo- or heterocyclic, aromatic or non-aromatic ring, or R^8 and R^9 form together with the N a heterocyclic 5- or 6-membered saturated or unsaturated ring optionally substituted with (1C-4C)alkyl; or a salt or hydrate form thereof.

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