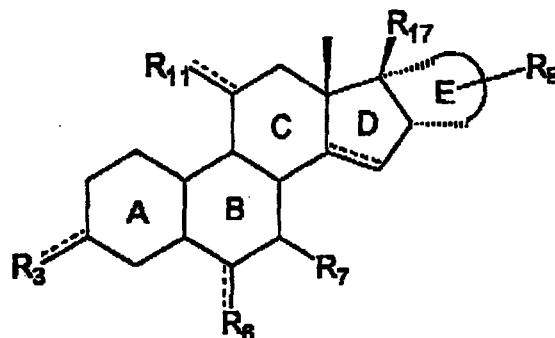


STEROID COMPOUNDS HAVING CONTRACEPTIVE AND ANTI-OSTEOPOROSIS ACTIVITY

Abstract

The invention relates to steroid compounds of formula



wherein

R_3 is $=O$, $-OH$, $=NOR$, $-OR$ or $-OOCR$; R_6 is H , $=CH_2$, methyl or ethyl; R_7 is H , alkyl, alkenyl or alkynyl, any of which may be substituted with 1 to 3 F or Cl atoms; R_{11} is H , alkyl, alkenyl, alkynyl or alkylidene, any of which may be substituted with 1 to 3 F or Cl atoms; E represents a four to seven-membered ring which is α with respect to the 'D-ring; R_E is H , alkyl, alkenyl, alkynyl, alkylidene, spiro-anellated cycloalkyl (any of which may be optionally substituted), $-NCO$, $-(CH_2)_{0-5}N_3$, $-(CH_2)_{0-5}CN$, $-OR$, $-SR$, $-OOCR$, $-NHR$, NRR or $-NHCOR$; R is alkyl;

and pharmaceutical compositions thereof. The steroid compounds of the present invention may be used for contraception or in prevention or treatment of perimenopausal or menopausal complaints, such as osteoporosis.

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