

19-Nor-steroid derivatives with a 15 α ,16 α -methylene group and a saturated 17,17-spirolactone ring, use thereof and medicinal products containing these derivatives

5 Abstract

The 15 α ,16 α -methylene-17-hydroxy-19-nor-17-pregna-4-en-3-one-21-carboxylic acid γ -lactone derivatives of the present invention possess progestational efficacy. They have the general chemical formula I, in which Z is selected from the group comprising an oxygen atom, two hydrogen atoms, NOR and NNHSO₂R, where R is hydrogen, C₁-C₁₀-alkyl, aryl or C₇-C₂₀-aralkyl, R⁴ is hydrogen or halogen, and moreover either: R^{6a}, R^{6b} together form methylene or 1,2-ethanediyl or R^{6a} is hydrogen and R^{6b} is selected from the group comprising hydrogen, C₁-C₁₀-alkyl, C₂-C₁₀-alkenyl or C₂-C₁₀-alkynyl, and R⁷ is selected from the group comprising hydrogen, C₁-C₁₀-alkyl, C₃-C₆-cycloalkyl, C₂-C₁₀-alkenyl or C₂-C₁₀-alkynyl, or: R^{6a} is hydrogen and R^{6b} and R⁷, together, denote a bond, an oxygen or form methylene, R¹⁸ represents hydrogen or C₁-C₃-alkyl and in addition include their solvates, hydrates, stereoisomers and salts.

