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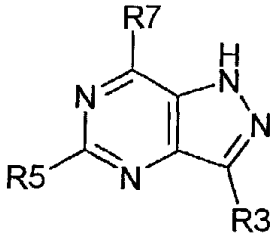
(54) NOUVEAUX PYRAZOLO[4,3-D]PYRIMIDINES, PROCEDES POUR LEUR PREPARATION ET METHODES POUR UNE THERAPIE

(54) NOVEL PYRAZOLO[4,3-D]PYRIMIDINES, PROCESSES FOR THEIR PREPARATION AND METHODS FOR THERAPY

(57)

The invention relates to 3-, 5-, 7-trisubstituted pyrazolo[4,3-d]pyrimidines represented by the general formula (I), and pharmaceutically acceptable salts thereof, wherein, R3 is an optionally substituted alkyl, cycloalkyl, cycloheteroalkyl, cycloalkyl alkyl, aryl or alkylaryl group; R5 is halogen, - NHNH2, -NHOH, NHCONH2, guanylo (NH-C(NH)NH2) an optionally substituted C1-C6 alkyl, alkenyl, alkinyl, C3-C15 cycloalkyl, Rf (C3-C15 cycloalkyl), heterocycle, heteroalkyl, aryl, heteroaryl, arylalkyl, cycloheteroalkyl, cycloheteroalkyl alkyl, heteroarylalkyl group, the group -C(O)-Ra, -C(O)NRbRc - SO3Rd, or -NHC(O)Re, wherein Ra and Rf are an optionally substituted C1-C6 alkyl, alkenyl, or alkinyl group, Rb, Rc and Rd are independently selected from the group consisting of H, optionally substituted C1-C6 alkyl, alkenyl, or alkinyl group, and Re is a hydroxy, amino, alkoxy, alkylamino, optionally substituted C1-C6 alkyl, alkenyl or alkinyl group; or the group -X-R5', wherein X is -NH-, -O-, -S- or -N(alkyl)- and R5' is hydrogen, an optionally substituted C1-C6 alkyl, alkenyl, alkinyl, C3-C15 cycloalkyl, Rf(C3-C15 cycloalkyl), aryl, heterocycle, hetero C1-C6 alkyl, arylalkyl, heteroaryl, cycloheteroalkyl, cycloheteroalkyl alkyl, or heteroarylalkyl group, the group - C(O)-Ra, -C(O)NRbRc, -SO3Rd, or-NHC(O)Re, wherein Ra, Rb, Rc, Rd, Re and Rf have the above meaning, and R7 is halogen, -NHNH2, NHOH, NHCONH2, guanylo (NH- C(NH)NH2) or the group -X-R7, wherein X has the above meaning and the meaning of R7, is as defined for R5'.



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