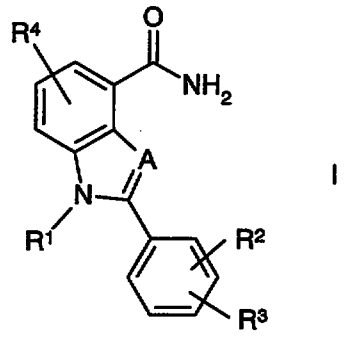
2-Phenylbenzimidazoles and 2-phenylindoles, their preparation and use

Abstract

The present invention relates to the use of 2-phenylbenzimidazoles and 2-phenylindoles of the general formula I:



I

in which

A N oder CH bedeutet,

R^1 is hydrogen, branched and [sic] unbranched C_1-C_6-alkyl, where one C atom of the alkyl radical can further carry OR^{11} or a group R^5, where

R^{11} is hydrogen or C_1-C_4-alkyl, and

R^2 is hydrogen, chlorine, fluorine, bromine, iodine, branched and [sic] unbranched C_1-C_6-alkyl, nitro, CF_3, CN, $NR^{21}R^{22}$, NH-CO-R^{23}, OR^{21}, where

R^{21} and R^{22} independently of one another are hydrogen or C_1-C_4-alkyl and

R^{23} is hydrogen, C_1-C_4-alkyl or phenyl, and

R^3 is $-(CH_2)_q-NR^{31}R^{32}$, where q can be 0, 1, 2 or 3

R^{31} is hydrogen, C_1-C_6-alkyl, $(CH_2)_rNR^{33}R^{34}$,

R_{32} [sic] is $(CH_2)_rNR^{33}R^{34}$,

in which, if R^{31} and R^{32} are independent of one another, r is 2, 3, 4, 5 or 6 and R^{33} and R^{34} independently of one another are hydrogen, C_1-C_6-alkyl, together with the nitrogen atom are a ring of 3 to 8 atoms which can carry

an additional heteroatom selected from O, N-C_1-C_4-alkyl, N-C_0-C_2-phenyl or NH, phenyl-C_1-C_4-alkyl, where the phenyl ring can be substituted by up to 3 identical or different subtituents selected from the group consisting of C_1-C_6-alkyl, halogen, nitro, $SO_2NR^{35}R^{36}$ (where R^{35}, R^{36} independently of one another are hydrogen, C_1-C_4-alkyl or together with the nitrogen are a ring of 3 to 8 atoms which can carry an additional hetero atom selected from O, S, SO_2, N-C_1-C_4-alkyl, N-C_0-C_2-phenyl or NH), C_1-C_4-alkoxy, $S(O)_{0-2}$-R^{37} (where R^{37} is hydrogen, C_1-C_4-alkyl), CF_3, $(CH_2)_{0-4}$-COR^{37}, $(CH_2)_{0-4}NR^{35}R^{36}$, $(CH_2)_{0-4}CONR^{35}R^{36}$, $(CH_2)_{0-4}OR^{37}$-CH_2COOR^{37},

R^4 is hydrogen, branched or unbranched C_1-C_6-alkyl, chlorine, bromine, fluorine, nitro, cyano, $NR^{41}R^{42}$, NH-CO-R^{43}, OR^{41}, where

R^{41} and R^{42} independently of one another are hydrogen or C_1-C_4-alkyl and

R^{43} is C_1-C_4-alkyl or phenyl,

as inhibitors of the enzyme poly(ADP-ribose)polymerase for the production of drugs.