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Use of inhibitors of the sodium-hydrogen exchanger for the production of a pharmaceutical for the treatment of disorders which are caused by protozoa

ABSTRACT

Inhibitors of the sodium-hydrogen exchanger are suitable on their own or in combination with other classes of active compound for the production of a medicament for the treament of diseases which are caused by protozoa; thus of diseases which are caused by animal- and human-pathogenic protozoa, such as by intracellularly active parasites of the classes Apicomplexa and Zoomastigophorea, in particular trypanosomes, plasmodia (malaria pathogens), leishmanias, babesias and theilerias, cryptosporidiidae, sarcocystidae, amoebae, coccidia and trichomonads.

NHE inhibitors are particularly preferably suitable for the production of a medicament for the treatment of tropical malaria, of tertian malaria, of quartan malaria, as well as toxoplasmosis, of coccidiosis, of intestinal sarcosporidosis, of cryptosporidosis, of Chargas' disease and of the cutaneous and visceral as well as other forms of leishmaniases;

and also for the production of a medicament for the treatment of animals which have been infected by animal-pathogenic protozoa, such as by Theileria parva, the pathogen of East Coast fever of cattle, Babesia begemina, the pathogen of Texas fever in cattle and buffalo, Babesia bovis, the pathogen of European bovine babesiosis, and babesioses in dogs, cats and sheep, sarcocystidae, the pathogens of sarcocystoses in sheep, cattle and pigs, cryptosporidiidae, the pathogens of cryptosporidosis in cattle and birds, coccidia, the pathogens of coccidioses of rabbits, cattle, sheep, goats and pigs, but in particular of chickens and turkeys.

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where the phenyl is not substituted or is substituted by 1 - 3 substituents selected from the group consisting of F, Cl, CF_3, methyl, methoxy and NR(11)R(12);

R(11) and R(12)

independently of one another are H, alkyl having 1, 2, 3 or 4 carbon atoms or perfluoroalkyl having 1, 2, 3 or 4 carbon atoms;

R(6) and R(7)

independently of one another are hydrogen, F, Cl, Br, I, CN, alkyl having 1, 2, 3, 4, 5, 6, 7 or 8 carbon atoms, perfluoroalkyl having 1, 2, 3, 4, 5, 6, 7 or 8 carbon atoms, cycloalkyl having 3, 4, 5, 6, 7 or 8 carbon atoms, or phenyl,

which is not substituted or is substituted by 1 - 3 substituents selected from the group consisting of F, Cl, CF_3, methyl, methoxy and NR(14)R(15);

R(14) and R(15)

independently of one another are H, alkyl having 1, 2, 3 or 4 carbon atoms or perfluoroalkyl having 1, 2, 3 or 4 carbon atoms;

and their pharmaceutically tolerable salts.

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