3-hydroxy-N'-arylidenepropanehydrazonamides with halo-substituted phenanthrene scaffolds cure P. berghei infected mice when administered perorally

JournalArticle (Originalarbeit in einer wissenschaftlichen Zeitschrift)

ID 3887659
Author(s) Leven, Michael; Knaab, Tanja C.; Held, Jana; Duffy, Sandra; Meister, Stephan; Fischli, Christoph; Meitzner, Diane; Lehmann, Ursula; Lungerich, Beate; Kuna, Krystina; Stahlke, Petra; Delves, Michael J.; Buchholz, Mirko; Winzeler, Elizabeth A.; Avery, Vicky M.; Mordmüller, Benjamin; Wittlin, Sergio; Kurz, Thomas

Author(s) at UniBasel Wittlin, Sergio ; Lehmann, Ursula ;
Year 2017

Title 3-hydroxy-N'-arylidenepropanehydrazonamides with halo-substituted phenanthrene scaffolds cure P. berghei infected mice when administered perorally

Journal Journal of Medicinal Chemistry

Volume 60

Number 14

Pages / **Article-Number** 6036-6044

Structural optimization of 3-hydroxy-N'-arylidenepropanehydrazonamides provided new analogs with nanomolar to subnanomolar antiplasmodial activity against asexual blood stages of Plasmodium falciparum, excellent parasite selectivity, and nanomolar activity against the earliest forms of gametocyte development. Particularly, derivatives with a 1,3-dihalo-6-trifluoromethylphenanthrene moiety showed outstanding in vivo properties and demonstrated in part curative activity in the Plasmodium berghei mouse model when administered perorally.

Publisher American Chemical Society

ISSN/ISBN 0022-2623 ; 1520-4804

edoc-URL http://edoc.unibas.ch/55876/

Full Text on edoc No;

Digital Object Identifier DOI 10.1021/acs.jmedchem.7b00140

PubMed ID http://www.ncbi.nlm.nih.gov/pubmed/28653845

ISI-Number WOS:000406727700006

Document type (ISI) Journal Article