

Publication

Antiprotozoal activity of azabicyclo-nonanes linked to tetrazole or sulfonamide cores

JournalArticle (Originalarbeit in einer wissenschaftlichen Zeitschrift)**ID** 4651546**Author(s)** Dolensky, J.; Hinteregger, C.; Leitner, A.; Seebacher, W.; Saf, R.; Belaj, F.; Mäser, P.; Kaiser, M.; Weis, R.**Author(s) at UniBasel** [Mäser, Pascal](#) ; [Kaiser, Marcel](#) ;**Year** 2022**Title** Antiprotozoal activity of azabicyclo-nonanes linked to tetrazole or sulfonamide cores**Journal** Molecules**Volume** 27**Number** 19**Pages / Article-Number** 6217**Keywords** Alkanes; *Antimalarials; *Antiprotozoal Agents/chemistry/pharmacology; Parasitic Sensitivity Tests; Plasmodium falciparum; Sulfanilamide; Sulfonamides/pharmacology; Tetrazoles/pharmacology; Trypanosoma brucei rhodesiense; Trypanosoma brucei; antimalarial; antitrypanosomal; azabicyclo-nonanes; tetrazoles**Mesh terms** Alkanes; Antimalarials; Antiprotozoal Agents, pharmacology; Parasitic Sensitivity Tests; Plasmodium falciparum; Sulfanilamide; Sulfonamides, pharmacology; Tetrazoles, pharmacology; Trypanosoma brucei rhodesiense

N-(Aminoalkyl)azabicyclo[3.2.2]nonanes possess antiplasmodial and antitrypanosomal activity. A series with terminal tetrazole or sulfonamido partial structure was prepared. The structures of all new compounds were confirmed by NMR and IR spectroscopy and by mass spectral data. A single crystal structure analysis enabled the distinction between isomers. The antiprotozoal activities were examined in vitro against strains of Plasmodium falciparum and Trypanosoma brucei rhodesiense (STIB 900). The most active sulfonamide and tetrazole derivatives showed activities in the submicromolar range.

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