

## Publication

## 8-amino-6-methoxyquinoline-tetrazole hybrids: Impact of linkers on antiplasmodial activity

**JournalArticle (Originalarbeit in einer wissenschaftlichen Zeitschrift)****ID** 4646367**Author(s)** Hocegger, P.; Dolensky, J.; Seebacher, W.; Saf, R.; Kaiser, M.; Mäser, P.; Weis, R.**Author(s) at UniBasel** [Kaiser, Marcel](#) ; [Mäser, Pascal](#) ;**Year** 2021**Title** 8-amino-6-methoxyquinoline-tetrazole hybrids: Impact of linkers on antiplasmodial activity**Journal** Molecules**Volume** 26**Number** 18**Pages / Article-Number** 5530**Keywords** 8-aminoquinolines; Plasmodium falciparum; antimalarial; tetrazole derivatives**Mesh terms** Aminoquinolines, pharmacology; Animals; Antimalarials, pharmacology; Cell Line; Cell Survival, drug effects; Inhibitory Concentration 50; Plasmodium falciparum, drug effects; Primaquine, chemistry; Quinolines, pharmacology; Rats; Tetrazoles, pharmacology

A new series of compounds was prepared from 6-methoxyquinolin-8-amine or its N-(2-aminoethyl) analogue via Ugi-azide reaction. Their linkers between the quinoline and the tert-butyltetrazole moieties differ in chain length, basicity and substitution. Compounds were tested for their antiplasmodial activity against Plasmodium falciparum NF54 as well as their cytotoxicity against L-6-cells. The activity and the cytotoxicity were strongly influenced by the linker and its substitution. The most active compounds showed good activity and promising selectivity.

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