

Publication

Antiprotozoal isoprenoids from *Salvia hydrangea***JournalArticle (Originalarbeit in einer wissenschaftlichen Zeitschrift)****ID** 4491683**Author(s)** Tabefam, M.; Farimani, M. M.; Danton, O.; Ramseyer, J.; Ebrahimi, S. N.; Neuburger, M.; Kaiser, M.; Salehi, P.; Potterat, O.; Hamburger, M.**Author(s) at UniBasel** [Hamburger, Matthias](#) ; [Potterat, Olivier](#) ; [Ramseyer, Justine](#) ; [Danton, Ombeline Réjane](#) ; [Kaiser, Marcel](#) ;**Year** 2018**Title** Antiprotozoal isoprenoids from *Salvia hydrangea***Journal** Journal of natural products**Volume** 81**Pages / Article-Number** 2682-2691

Fractionation of the n-hexane extract of *Salvia hydrangea* afforded seven isoprenoids including six new compounds (1-6) and salvadione A (7). Their structures were established by comprehensive spectroscopic and spectrometric data analysis (1D and 2D NMR, HRMS). The absolute configuration of salvadione A (7) was established by single-crystal X-ray diffraction analysis with Cu/K α radiation. In addition, the absolute configuration of all compounds was determined by electronic circular dichroism spectroscopy. A biosynthetic pathway for the formation of the scaffold of 1 is proposed. The antiprotozoal activity of the compounds against *Trypanosoma brucei rhodesiense*, *Trypanosoma cruzi*, *Leishmania donovani*, and *Plasmodium falciparum* was determined, and cytotoxicity was assessed in rat myoblast L6 cells. Perovskone C (2) exhibited good activity against *P. falciparum* (IC₅₀ 0.6 μ M) and a selectivity index of 62.2.

Publisher American Society of Pharmacognosy**ISSN/ISBN** 0163-3864**edoc-URL** <https://edoc.unibas.ch/67987/>**Full Text on edoc** No;**Digital Object Identifier DOI** 10.1021/acs.jnatprod.8b00498**PubMed ID** <http://www.ncbi.nlm.nih.gov/pubmed/30565934>**ISI-Number** MEDLINE:30565934**Document type (ISI)** Journal Article