

**Publication****Structure-Elucidating Total Synthesis of the (Polyenoyl)tetramic Acid Militarinone C§****JournalArticle (Originalarbeit in einer wissenschaftlichen Zeitschrift)****ID** 4596267**Author(s)** Drescher, Christian; Keller, Morris; Potterat, Olivier; Hamburger, Matthias; Brückner, Reinhard**Author(s) at UniBasel** [Hamburger, Matthias](#) ; [Keller, Morris](#) ; [Potterat, Olivier](#) ;**Year** 2020**Title** Structure-Elucidating Total Synthesis of the (Polyenoyl)tetramic Acid Militarinone C§**Journal** Organic Letters**Volume** 22**Number** 7**Pages / Article-Number** 2559-2563

The (polyenoyl)tetramic acid militarinone C (1) heads a family of seven members. Before our work, the configuration of C-5 was unknown whereas the configurations of C-8'' and C-10'' were either (R,R) or (S,S). We synthesized the four stereoisomers of constitution 1, which conform with these insights. This included cross-coupling both enantiomers of the western building block (8) with both enantiomers of the eastern building block (9). The specific rotations of the resulting 1 isomers suggested that natural 1 is configured like the coupling partners (S)-8 and (R,R)-9. This conclusion was corroborated by degrading natural 1 to alcohol 35 and by proving its configurational identity with synthetic (R,R)-35.

**Publisher** American Chemical Society**ISSN/ISBN** 1523-7060 ; 1523-7052**edoc-URL** <https://edoc.unibas.ch/78654/>**Full Text on edoc** No;**Digital Object Identifier DOI** 10.1021/acs.orglett.0c00431**PubMed ID** <http://www.ncbi.nlm.nih.gov/pubmed/32191484>**Document type (ISI)** Journal Article