



Synthetic and Biophysical Studies on the Tridachiahedropyrone Family of Natural Products

By Kimberley Jade Powell

Springer-Verlag GmbH Nov 2015, 2015. Buch. Book Condition: Neu. 244x164x14 mm. Neuware - This thesis addresses fundamental scientific questions such as: How are complex natural products synthesized in vivo Can we replicate these conditions in a laboratory environment What is the biological function of such secondary metabolites What are the biological origins of chirality These issues are explored in an accessible manner using a multidisciplinary approach spanning chemistry, biology and physics to investigate an interesting family of complex natural products isolated from marine molluscs - the tridachiahedropyrones. The work has achieved: Elegant biomimetic syntheses of a number of the tridachiahedropyrone compounds in vitro using organic synthesis techniques The characterization of the interactions between these compounds and a range of model membrane systems using a series of fluorescence spectroscopic studies The investigation of the antioxidant and photoprotective properties of the compounds by means of biophysical assay techniques The synthesis of tridachiahedropyrone utilizing the model membrane systems as biomimetic reaction media. 136 pp. Englisch.



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