



Stereoselective Desymmetrization Methods in the Assembly of Complex Natural Molecules

By Robert Sharpe

Springer-Verlag Gmbh Jul 2016, 2016. Buch. Book Condition: Neu. 241x159x25 mm. Neuware - This thesis describes the inception, design, and implementation of stereoselective desymmetrization reactions in the total synthesis of the natural products pactamycin and paspaline. In the case of pactamycin, the author develops a novel asymmetric Mannich reaction and symmetry-breaking reduction strategy to enable facile construction of the complex core architecture in fifteen steps using commercially available materials - the shortest synthesis to date. He subsequently demonstrates the flexibility of this approach in SAR investigations by highlighting the preparation of twenty-five unique pactamycin structural congeners. For paspaline, the author develops a biocatalytic desymmetrization strategy that allows the highly controlled synthesis of core stereochemistry and provides a platform for the development of new conceptual disconnections in the synthesis of 'steroid-like' natural products. This thesis offers a valuable resource for students embarking on a PhD in total synthesis. 266 pp. Englisch.



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