

***De novo* synthesis of a D-galacturonic acid thioglycoside as key to the total synthesis of a glycosphingolipid from *Sphingomonas yanoikuyae*.**

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Abstract

A concise synthesis of a differentially protected D-galacturonic acid (D-GalA) thioglycoside and the construction of a potent immunomodulating glycosphingolipid are described. The key steps of the synthesis are an Evans aldol reaction between a C4 aldehyde and a PMB-protected glycolyxazolidinone as well as a tandem-PMB-deprotection/cyclization to thioglycosides. The key glycosylation step is optimized by varying the anomeric leaving group, the activating agent, and the solvent system.

Involved units

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