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Using α - and β -Epimerizations of cis-2, 3-Bis (hydroxymethyl) - γ butyrolactone for the Synthesis of Both Enantiomers of Enterolactone

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Abstract

In the context of asymmetric synthesis, epimerization is usually problematic. Here, we describe the use of the epimerization of cis-2,3-bis(hydroxymethyl)- γ -butyrolactone for the synthesis of enterolactones with anti-carcinogenic, anti-inflammatory, anti-angiogenic, and antioxidant activity. Selective α - or β -epimerization of a γ -butyrolactone was used to selectively synthesize both enantiomers of enterolactone. Theoretical and kinetic studies were performed to elucidate the epimerization mechanism.

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Biography

Takeyuki Suzuki is working at Osaka University, Japan.