

A straightforward synthesis of ($\hat{\pm}$) 5-amino-5,6-dideoxyallose, of its bisulfite $\hat{2}$ -anomer, and of its 1-deoxy derivative.

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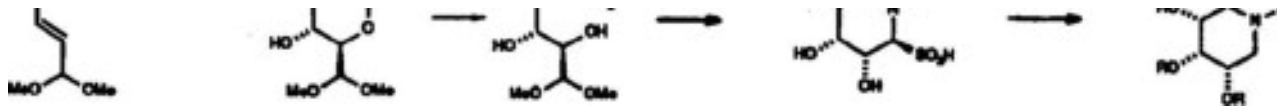
Abstract

Diels-Alder cycloaddition of (E,E)-hexadienal dimethylacetal **3** with the benzyloxycarbonylnitroso dienophile **4**, followed by catalytic osmylation, hydrogenolysis, and treatment with SO_2 , led stereospecifically to the sole $\hat{2}$ -anomer of allopiperidine bisulfite derivative **7**. Saponification of **7** and thence catalytic hydrogenation gave in high yield the 1-deoxyallopiperidine derivative **9**.

Graphical abstract

The amino-dideoxyallose bisulfite and its 1-deoxy derivative were synthesized in good yield from (E,E)-hexadienal dimethylacetal.





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