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A General Entry to Antifeedant Sesterterpenoids: Total Synthesis of (+)-Norleucosceptroid A, (−)-Norleucosceptroid B, and (−)-Leucosceptroid K

Synthesis of Norleucosceptroids A, B, and K

Significance: The target compounds represent a family of sesterterpenoids with antifeedant activity against a variety of plant-feeding insects and pathogens. Their potential application in plant protection renders them highly interesting targets for total synthesis and biological profiling.

Comment: The authors employed an interesting aldol-type condensation of dilactol F en route to G. H was subjected to a sequence including epoxidation followed by aluminum-mediated opening leading to the required syn-configured species I, which was elaborated into the unnatural enantiomers of norleucosceptoids A, B, and K.