Concise Synthetic Approaches for the *Laurencia* Family: Formal Total Syntheses of (±)-Laurefucin and (±)-E- and (±)-Z-Pinnatifidenyne


Formal Syntheses of (±)-Laurefucin and (±)-E- and (±)-Z-Pinnatifidenyne

Significance: (±)-Laurefucin and (±)-E- and (±)-Z-pinnatifidenyne are oxocanes belonging to the class of *Laurencia* haloethers. The authors implement a previously developed bromoetherification–ring-expansion sequence to obtain the stereochemically rich medium-sized rings present in the natural products.

Comment: Treatment of highly functionalized tetrahydrofuran substrates D and O with bromonium source E, induces a haloetherification giving oxonium intermediates F and P. Subsequent intramolecular trapping by an internal nucleophile provides previously reported cyclic ethers G and R.