Total Synthesis of (–)-Sinulariadiolide

Significance: The tricyclic nor-cembranoid sinulariadiolide was first isolated in 1996 from soft corals found in Okinawa. Fürstner and Meng report the total synthesis of (–)-sinulariadiolide via ring-closing alkyne metathesis followed by an intriguing intramolecular reaction cascade.

Comment: Fragments E and H were accessed from geranic acid (A) and carvone (F). Ring-closing alkyne metathesis and hydrostannation–carbonylation of J gave N. The title compound was accessed by a sequence involving transannular Michael addition.