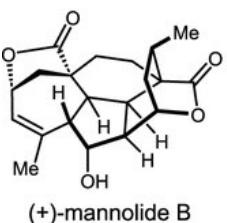


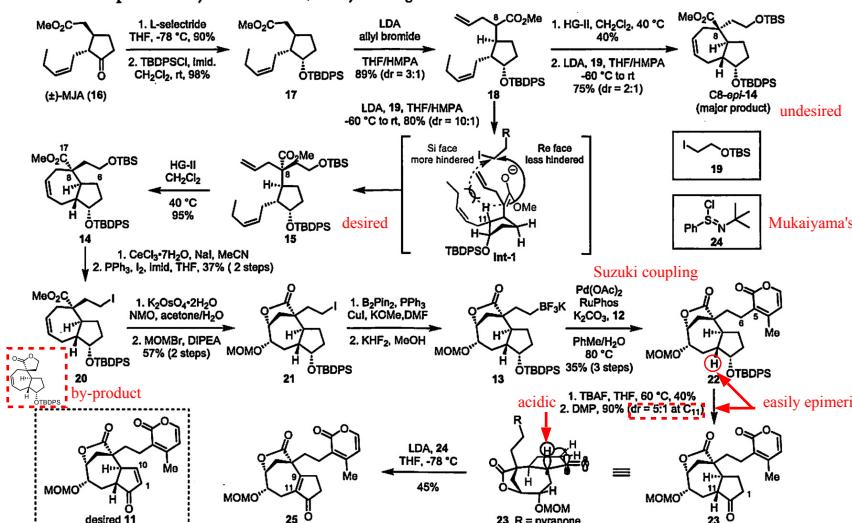
cephalotaxus diterpenoid

MJA (16) has been widely used in the perfume industry. However, its



- 5/7/5/6/6-Fused hexacyclic scaffold
 - 2 Bridged-lactone moieties
 - 10 Stereocenters: 9 contiguous
 - 2 Quaternary carbon centers
 - *First total synthesis*

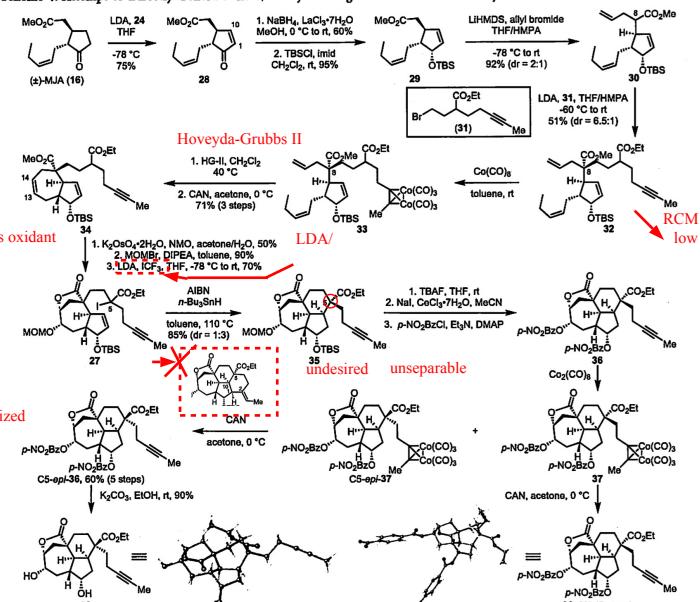
Scheme 2. Attempt to Directly Generate the 6/6 Bicyclic Ring via an Intramolecular Diels–Alder Reaction



the conversion of cyclopentene 30 compound 11 was not conducted.

Given a radical mechanism might be involved in the conversion of alkyl iodide 21 to the corresponding pinacol boronic ester.

Scheme 4. Attempt to Directly Generate the 6/6 Bicyclic Ring via a Radical Cascade Cyclization



Scheme 6. Total Synthesis of (+)-Mannolide B (1)

