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Total Synthesis of (–)-Himandrine


Synthesis of (–)-Himandrine

Significance: (–)-Himandrine was isolated from the bark of the tree Galbulimima belgradeana. Eight of the ten stereogenic centers were created by diastereoselective processes starting from just two stereogenic centers in fragments B and H.

Comment: The 2-azetidinone moiety at C16 served a dual role: it facilitated the Diels–Alder reaction by providing a 2-\(N\)-acylaminodiene with a greater preference for the \(s\)-cis conformation and it served as a latent C16 carbonyl (J → K).