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Total Synthesis of (–)-Himandrine
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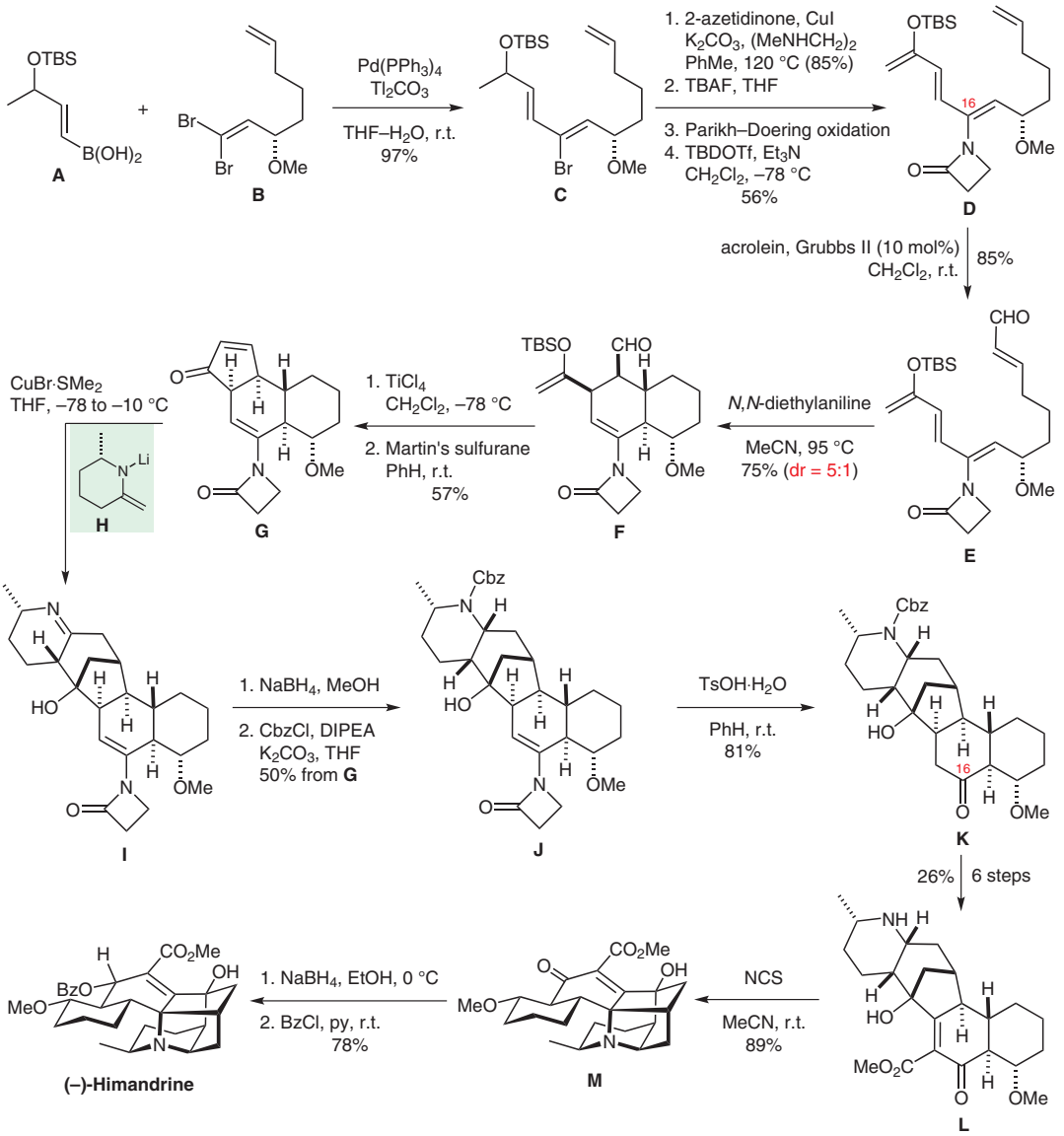
Synthesis of (–)-Himandrine



Significance: (–)-Himandrine was isolated from the bark of the tree *Galbulimima belgraveana*. 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 **E** with a greater preference for the *s-cis* conformation and it served as a latent C16 carbonyl (**J** → **K**).

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Synthesis of Natural Products and Potential Drugs

Key words

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Suzuki coupling
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amination
annulation
palladium

SYNFACT of the month

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