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(+)-Myristinin A, a Naturally Occurring DNA Polymerase β Inhibitor and Potent DNA Damaging Agent
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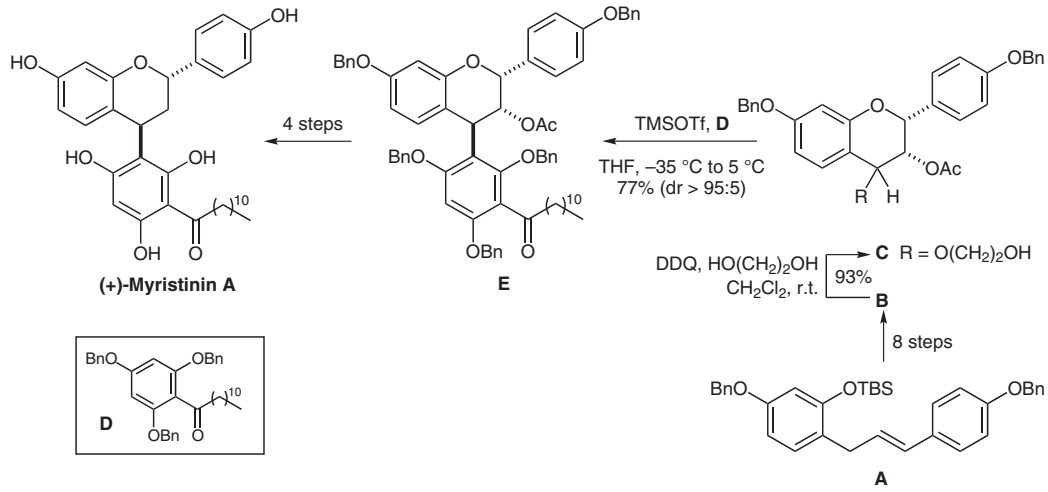
Total Synthesis of (+)-Myristinin A, a Potent DNA-Damaging Agent



Significance: Myristinin A is a flavanoid recently isolated from *Myristica cinnamomea* and *Knema elegans*. It displays DNA-damaging and polymerase β inhibitory activity. Hecht and co-workers provide details of the absolute stereochemistry of the natural product as well as biological studies related to its DNA-cleaving abilities.

Comment: The key step in this synthesis is the benzylic oxidation of **B** to generate **C** in excellent yield. Installation of this 4-*O*-alkylated moiety allows the Lewis acid-induced incorporation of **D** with excellent stereocontrol (>95:5) affording **E**.

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