



# **Strategies and Tactics in Organic Synthesis: Chapter 3. The Upside of Panic: Developing a Synthesis of Englerin A**

*William J. Chain*

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Englerin A is a guaiane sesquiterpene with potent and selective growth inhibition activity against six human renal cancer cell lines. Englerin A has captured the attention of the synthetic organic chemistry community owing to its exciting activity and its attractive polycyclic and functionalized structure. This document describes the process by which we developed a carbonyl-based synthesis of the natural product that relies upon simple, inexpensive starting materials. Utilizing a diastereoselective Michael addition reaction, followed by a remarkably selective samarium-mediated carbonyl-alkene cyclization, we completed an eight-step synthesis of englerin A.

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