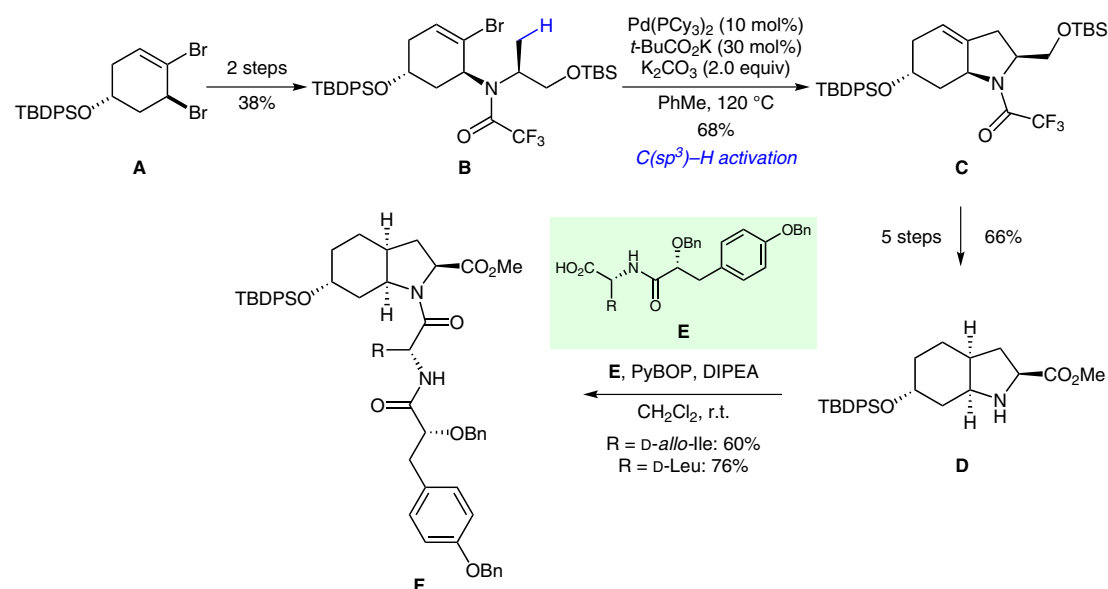


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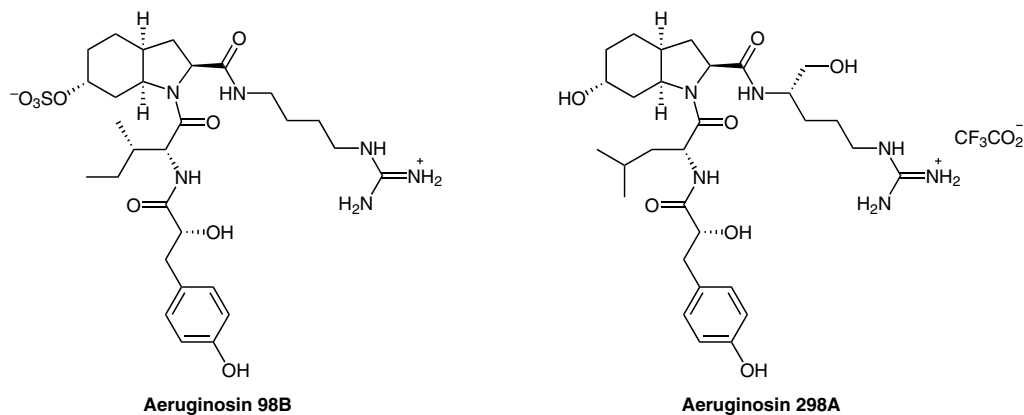
A General and Scalable Synthesis of Aeruginosin Marine Natural Products Based on Two Strategic C(sp<sup>3</sup>)-H Activation Reactions

*Angew. Chem. Int. Ed.* **2015**, *54*, 4919–4922.

## Synthesis of Aeruginosin Natural Products



Natural products synthesized using this strategy in five steps from **F**:



**Significance:** The marine natural products of the aeruginosin family have been shown to possess high in vitro inhibition of serine proteases. In this communication by Baudoin and co-workers, a novel approach for the synthesis of the core structure using an uncommon C(sp<sup>3</sup>)-H bond activation is presented, culminating in the efficient total synthesis of aeruginosins 98B and 298A.

**Comment:** The synthesis of **B**, used for the pivotal C-H bond activation step, was accomplished from dibromocyclohexene **A** in two steps. Previously reported conditions (*Angew. Chem. Int. Ed.* **2012**, *51*, 10399) gave the cyclization product **C** in 68% yield. Its elaboration into key precursor **D** allowed for the installation of the peptide as well as the guanidine side chain of both natural products.

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