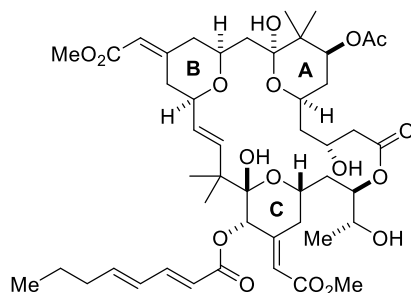


Scalable Synthesis of bryostatine 1

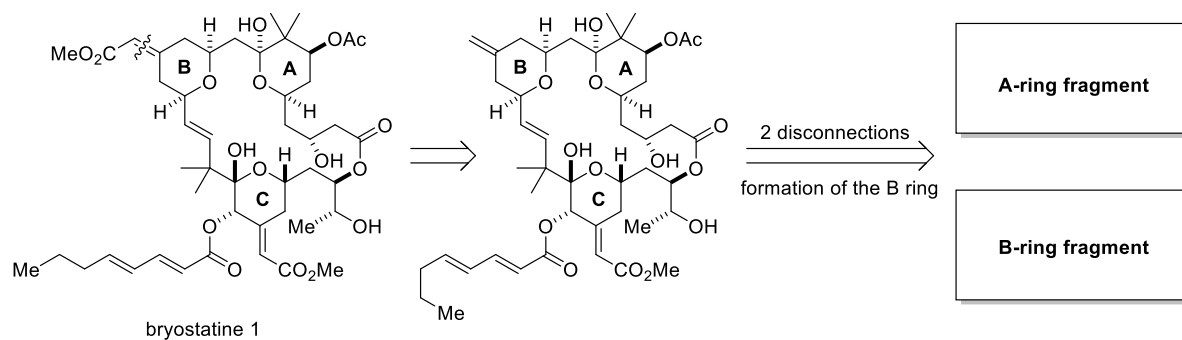
Science **2017**, *358*, 218-223.



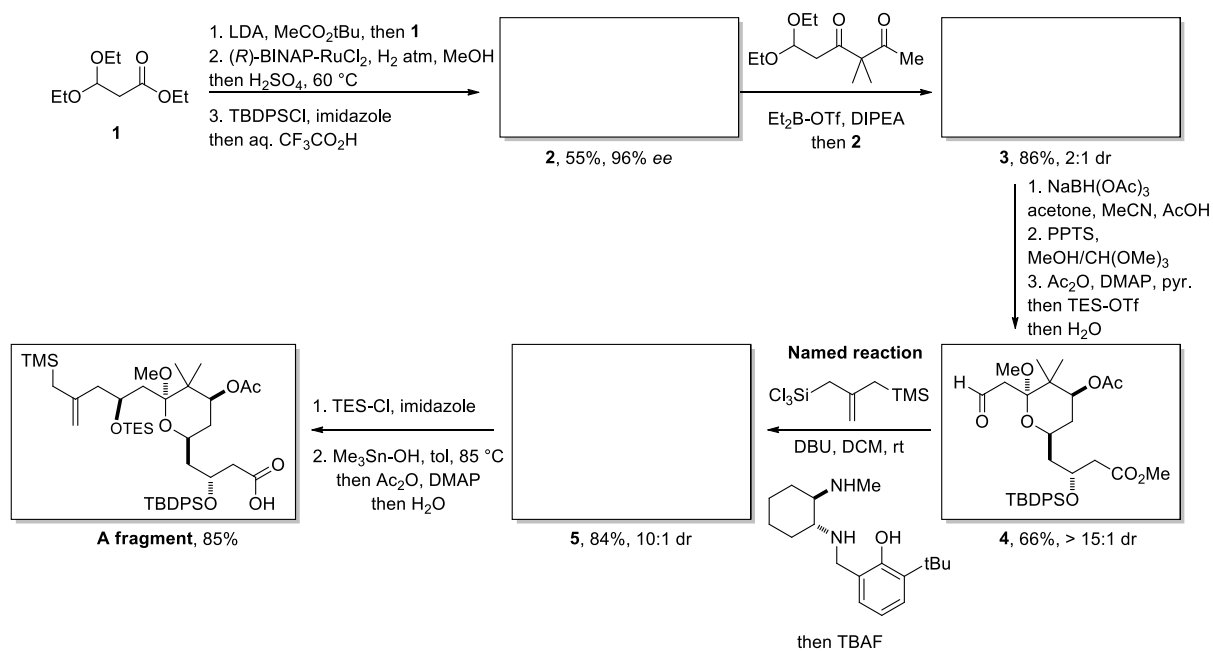
bryostatine 1 (29 steps)
> 2 grams produced (4.8%)
14 tons of *Bugula neritina* --> 18 g (0.00014%)

Previous synthesis of bryostatine 1 in 57 steps : *J. Am. Chem. Soc.* **2011**, *133*, 744-747.

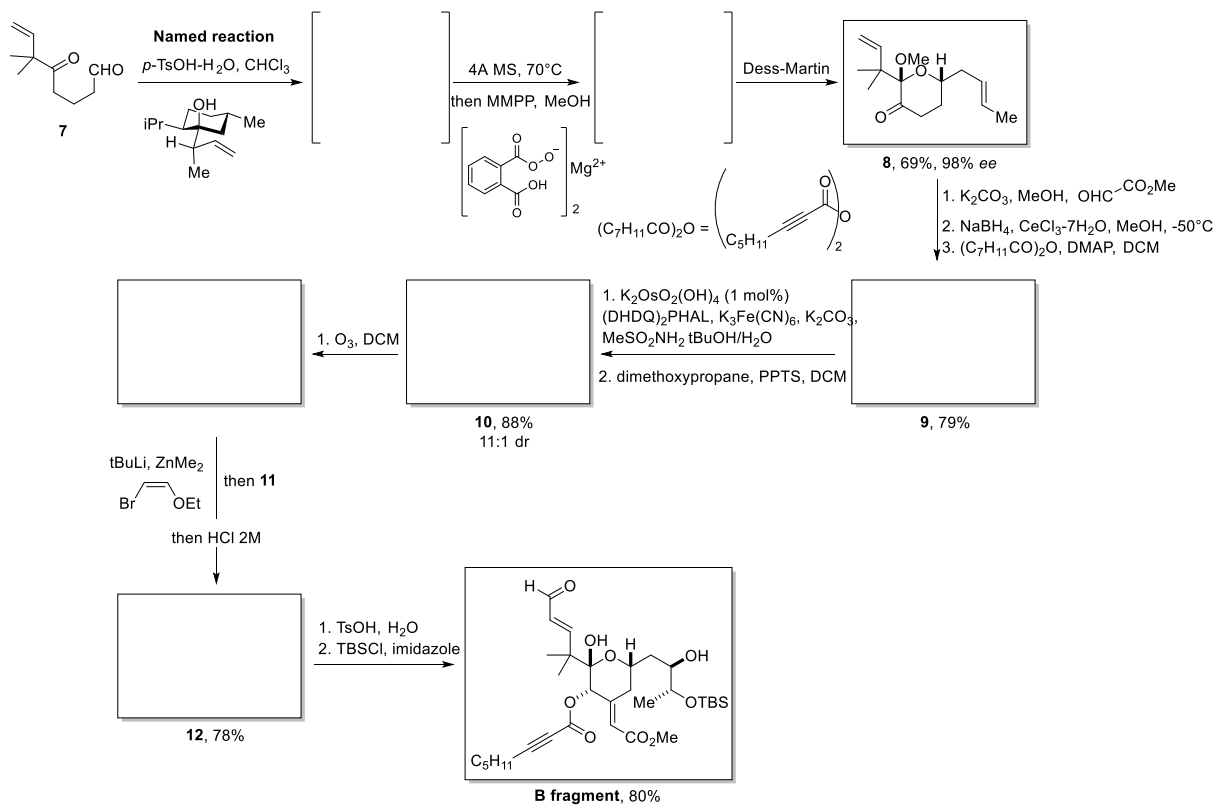
1. Retrosynthesis analysis



2. Synthesis of A-ring fragment



3. Synthesis of B-ring fragment



4. Endgame

