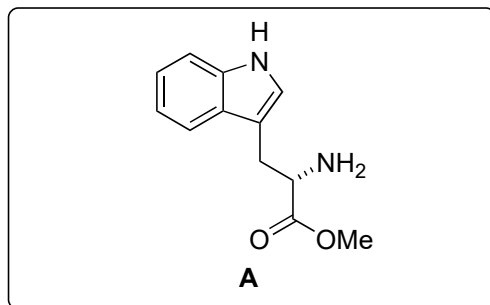


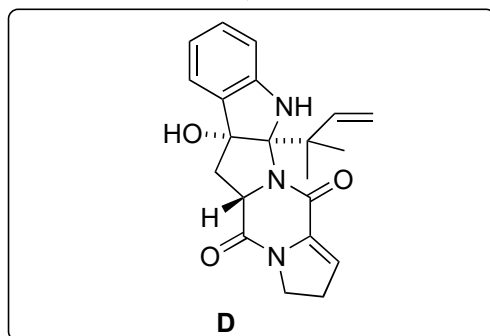
Synthesis of Brevianamide A and B

Robert C. Godfrey, Nicholas J. Green, Gary S. Nichol and Andrew L. Lawrence

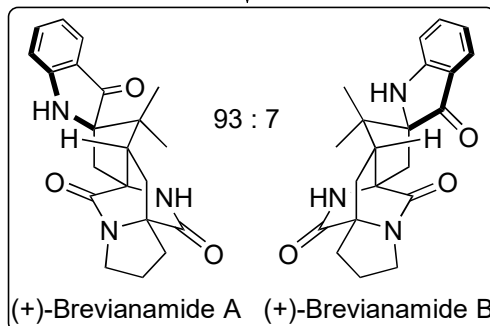
Nat. Chem. 2020, 12, 615–619



1–6

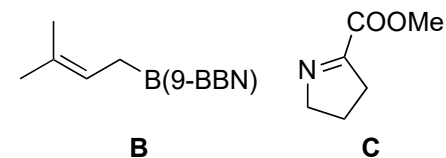


7



- 1) phthalic anhydride, NEt_3
- 2) $t\text{-BuOCl}$, NEt_3 , then **B**
- 3) LiCl , DMF
- 4) $(\text{COCl})_2$, DMF, then **C**
- 5) NH_3/MeOH
- 6) $m\text{-CPBA}$

7) LiOH



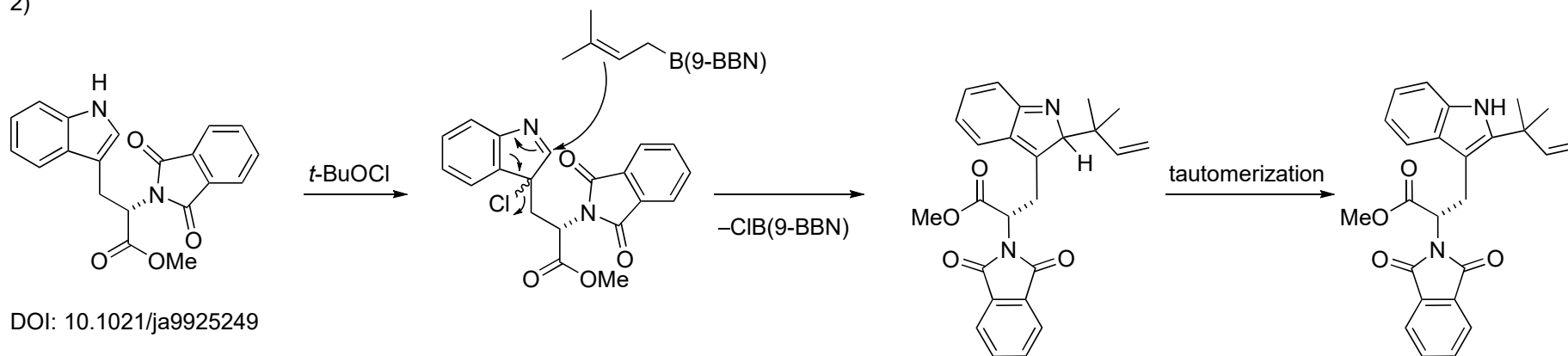
- 1) Name of **A**? How would you prepare it?
- 2) Propose a mechanism
- 4) How would you prepare **C**?

7) Propose a Mechanism, name the individual steps

Solution:

1) L-tryptophan methyl ester was prepared by treatment of a solution of L-tryptophan in methanol with thionyl chloride

2)



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4) Proline methyl ester was treated with NCS and NEt_3

7)

