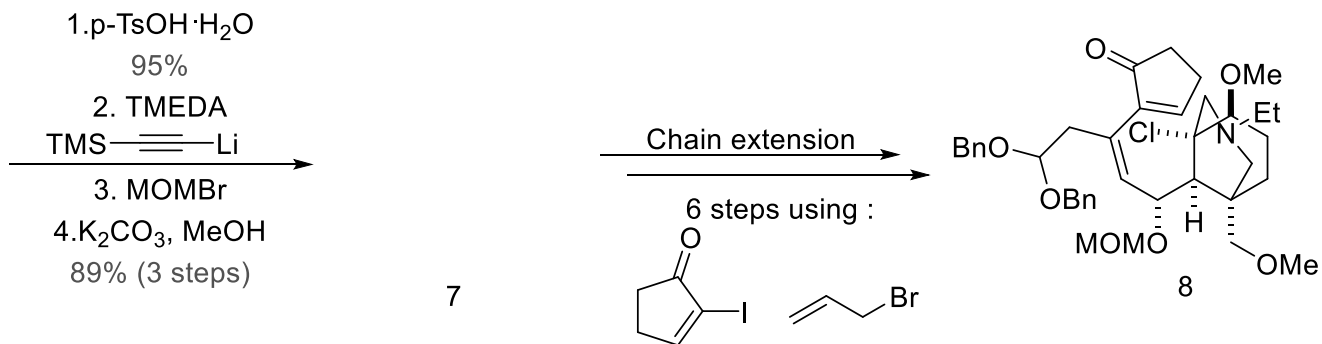
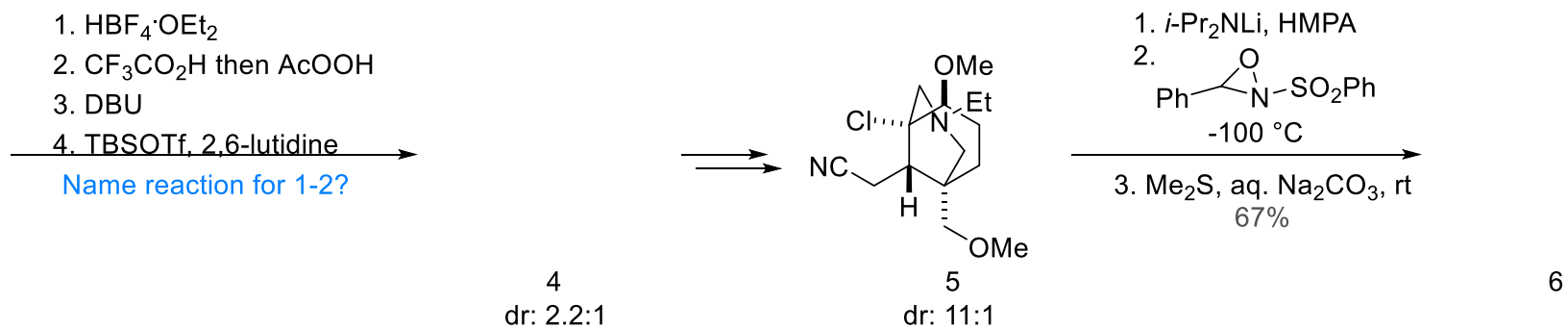
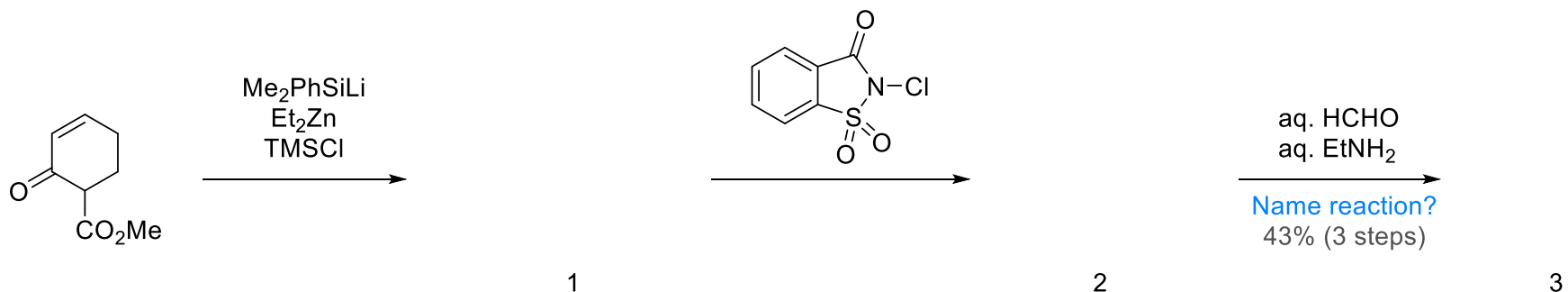


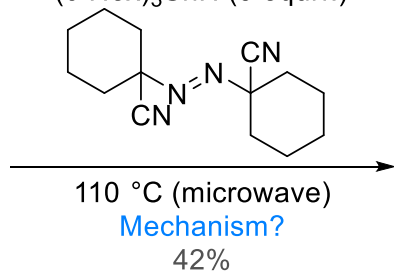
- 6/7/5/6/6/6-membered rings
- 1 tertiary amine
- 6 oxygens
- 12 contiguously aligned stereocenters

32 steps

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(c-Hex)₃SnH (3 equiv.)



8

1. TBSOTf, NEt₃
2. SnCl₄, ZnCl₂
Name reaction?
3. NaBH₄

9

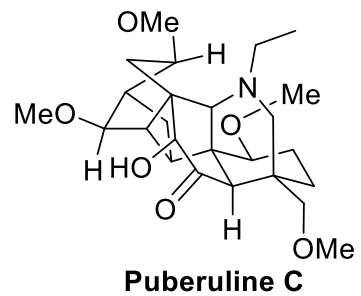
10b
18%

+

10a
4.3%

6 steps

1. H₂, Pd/C
2. MeI, *t*-BuOK
3. BF₃·OEt₂, Me₂S



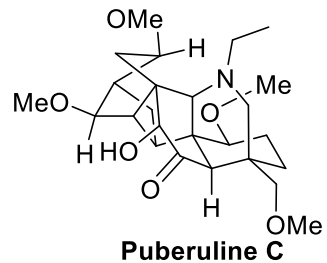
Puberuline C

i-Pr₂NLi, then
MoO₅·pyridine·HMPA

12

CF₃CO₂H then DMP

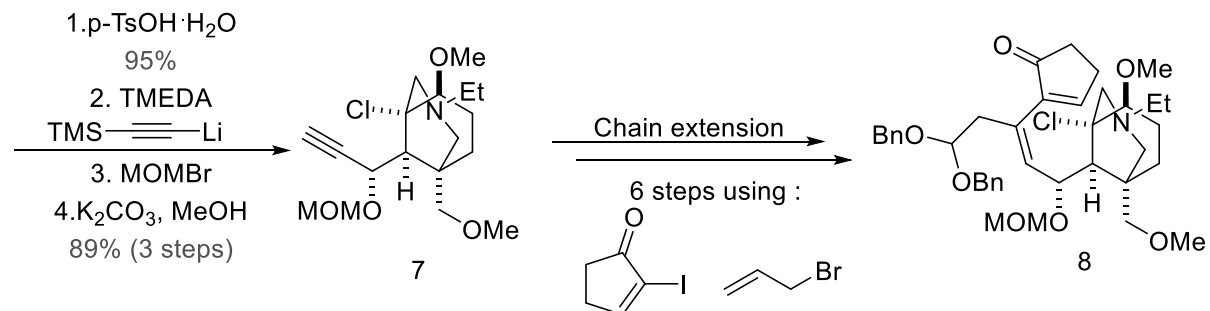
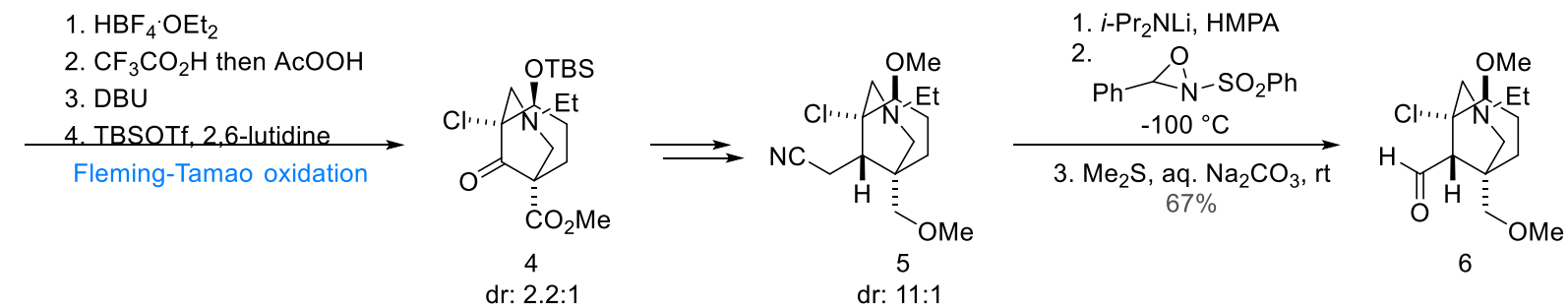
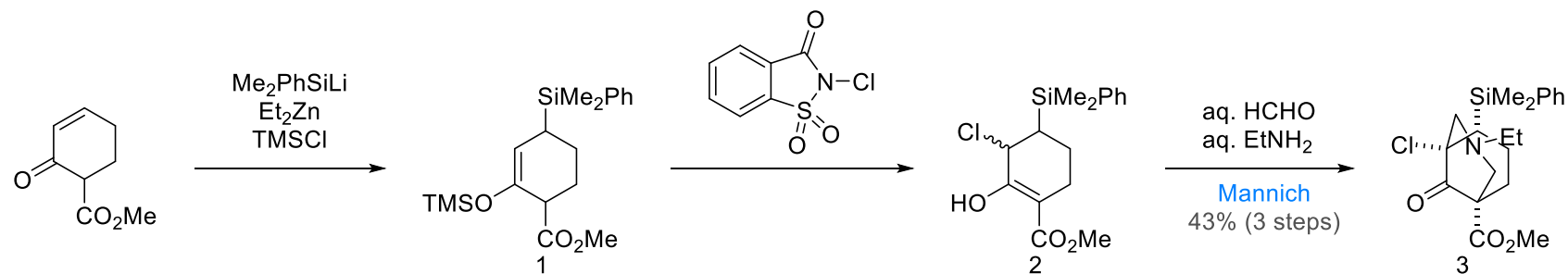
11

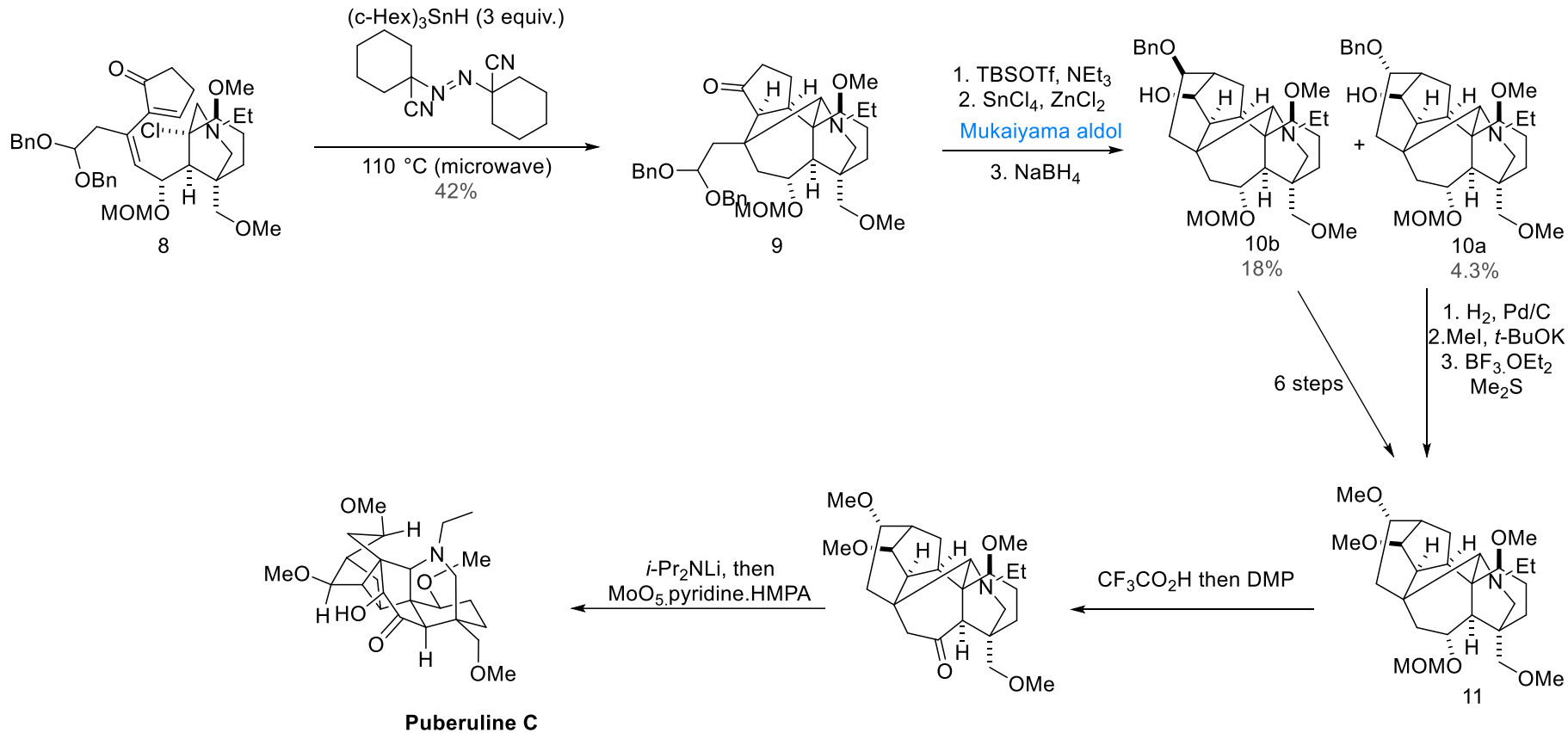


- 6/7/5/6/6/6-membered rings
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32 steps

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Key step:

