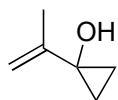


Total Synthesis of (+)-Punctaporonin U

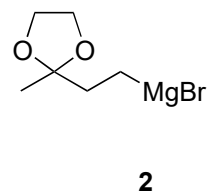
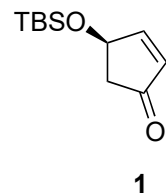
Gri, P.; Wang, Q.; Zhu, J. J. Am. Chem. Soc. **2025**, 147 (44), 40106–40112.



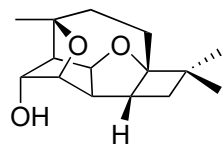
1-8



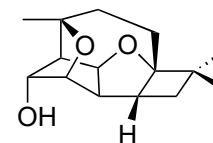
- 1) HCl
- 2) KHMDS, TBSCl
- 3) **1**; TESOTf; 2,6-di-*t*Bu-Py
- 4) **2**, LaCl₃, LiCl *then* 1 M HCl
- 5) TFAA, Py *then* TsOH (10 eq.)
- 6) MeONa *then* *i*Pr₂SiCl₂ *then* DBDHM *then* Py•HF
- 7) NMe₄BH(OAc)₄
- 8) 2,6-di-*t*Bu-Py



- 1) Name of reaction: semi-pinacol rearrangement
- 3) Name of reaction: Mukaiyama-Michael addition
- 6) Hint: Michael, aldol, bromination



(+)-Punctaporonin U



(+)-Punctaporonin U