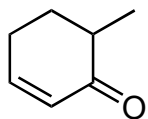


Total Synthesis of Andiroside N via 8- α -Hydroxycarapin

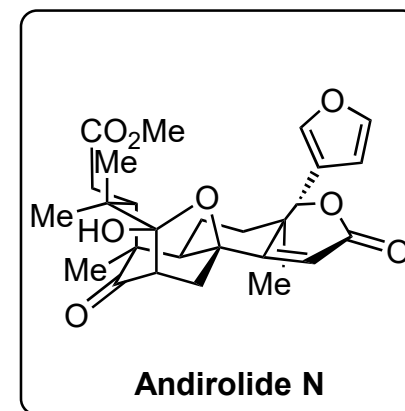
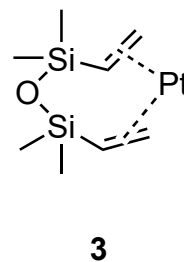
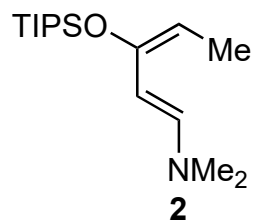
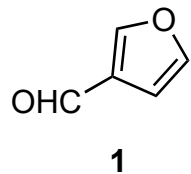
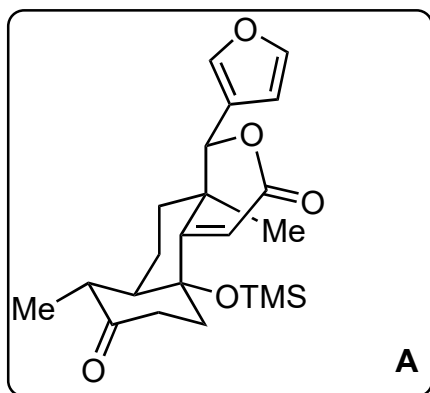
A. W. Schuppe, T. R. Newhouse, *J. Am. Chem. Soc.* **2017**, *139*, 631–634.

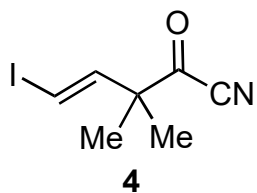


- 1) LDA, **1** then AcCl
- 2) **2**, PhCF₃, 140 °C
- 3) KHMDS *then* TsOH
- 4) **3**, Et₃SiH *then* DBU, O₂, P(OMe)₃
- 5) TMSCl, ImH

How would you make the starting material?

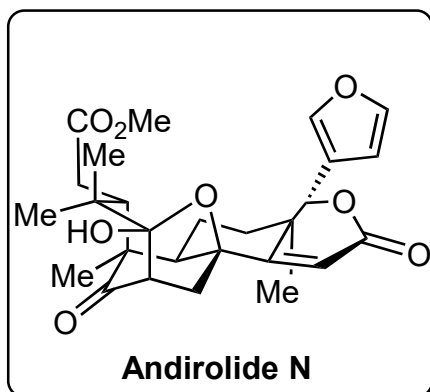
- 2) Name of **2**
Rawals Diene/Modified Rawals Diene
- 4) Name of the catalyst
Karstedts Catalyst



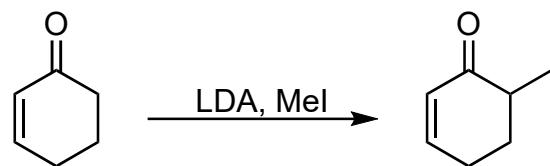


- 6) LiHMDS, **4**
7) Cs₂CO₃, allyliodide
8) Pd(dppf)Cl₂, CO, MeOH, Et₃N
9) KHMDS
10) PdCl₂(MeCN)₂
11) OsO₄, Oxone *then* H₂SO₄

6) Name the functional groups in **4**
Vinyl iodide & acyl cyanide



<https://doi.org/10.1021/np049771x>



<https://doi.org/10.1039/C6OB00941G>

