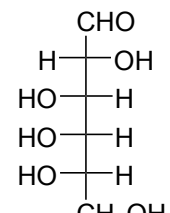
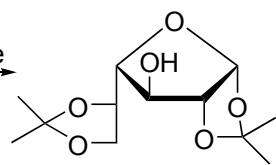


MOM STUDY

Se-Ho and Jingbo
Nov.22, 2003



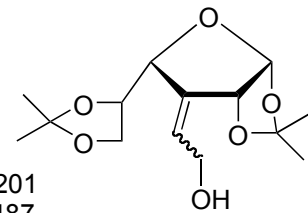
DMF-acetone
dry H⁺ resin



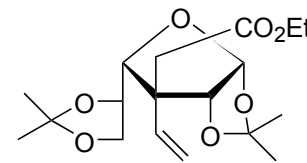
JOC **2003**, 68, 2521

L-altrose
or L-mannose

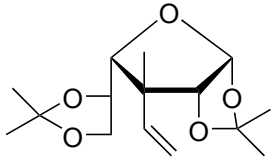
1. PCC
2. EtO-C(=O)-CH=CH-PPh₃
3. DIBAL
JOC **1987**, 52, 1201
THL **1995**, 36, 1487



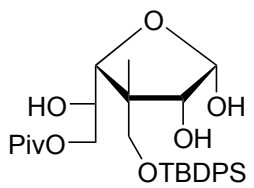
triethylorthoacetate
heat



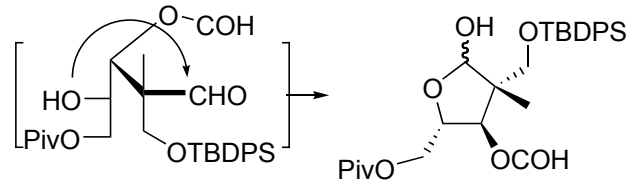
1. DIBAL
2. 10% Pd/C



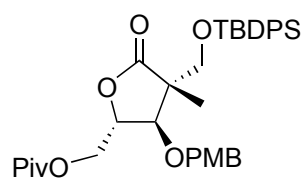
1. 60% AcOH
2. PivCl
3. O₃
4. DIBAL
5. TBDPSCI



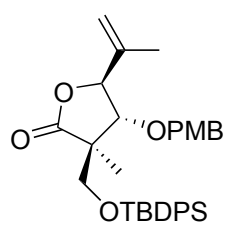
NaIO₄
aq. MeOH



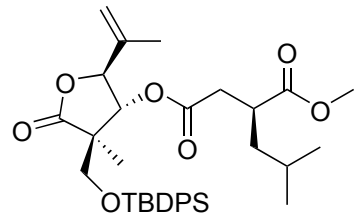
1. PCC
2. Et₃N, MeOH
3. PMB



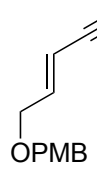
1. MeONa, MeOH
2. Swern
3. MeMgBr
4. DMP
5. CH₂=PPh₃



1. DDQ
2. HO-C(=O)-CH₂-C(=O)-Me
DCC

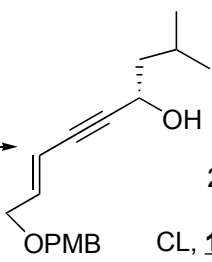


A

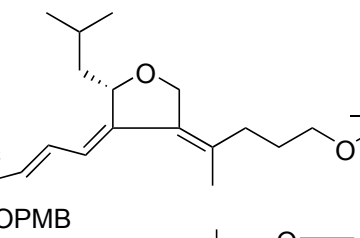


Zn(OTf)₂, TEA
(-)-N-methylephedrine
isovaleraldehyde

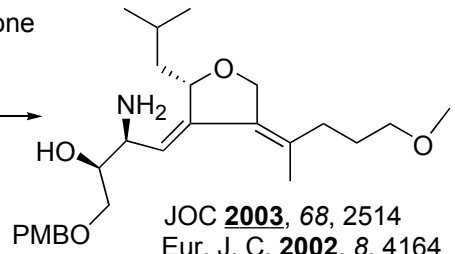
JACS, **2000**, 122, 1806



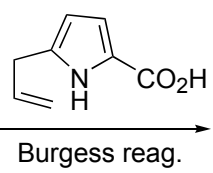
1. NaH
MsO-CH=CH-CH₂-CH₂-OMe
2. [IrCl(cod)]₂, HOAc
CL, **1979**, 10, 1235
JOC **2001**, 66, 4433



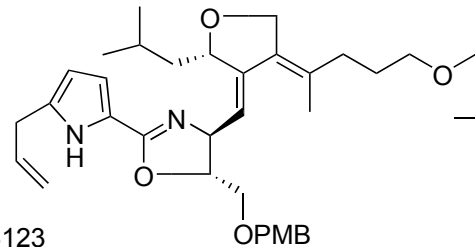
1. Shi's cat, Oxone
2. NaN₃, LiClO₄
3. NaBH₄



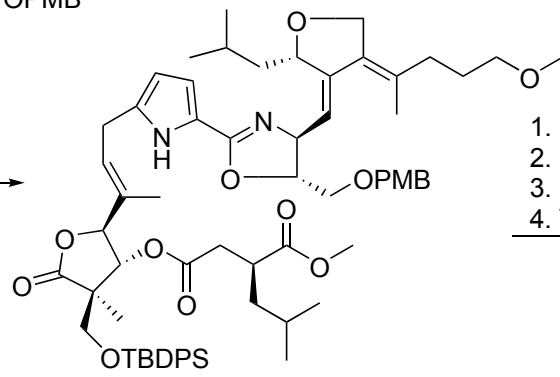
JOC **2003**, 68, 2514
Eur. J. C., **2002**, 8, 4164



Burgess reag.



A
Grubbs



1. DDQ
2. 1.0 M NaOH
3. EDC
4. TBAF

Leupyrrin A₁

Chem Ber, **1993**, 46, 3123