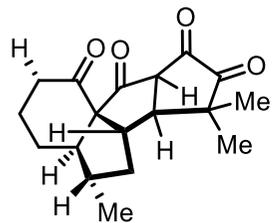
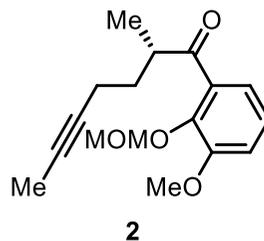
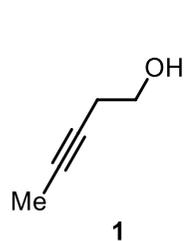


Aberrarone
(Elisapterane relevant diterpenoids)



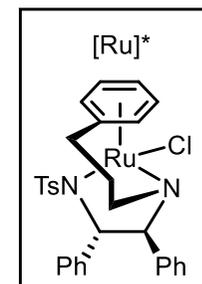
Ding and co-workers
J. Am. Chem. Soc. **2025**, 147, 36, 33136–33152
- Neutral product originating from marine source
- Isolated from *Pseudopterogorgia elisabethae*



1. p-TSA, H₂O
92%

2. [Ru]*
HCO₂H, NEt₃
98%, 6:1 d.r.

3



Pd/ CaCO₃
H₂
94%

4

Type of reaction?

PIFA, HFIP
Na₂CO₃

60%

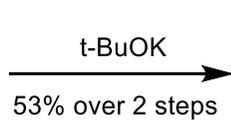
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UHP, TFAA
70%

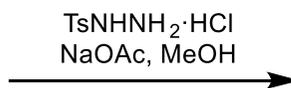
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Sml₂ (2.5 equiv.), HMPA
then MeOH

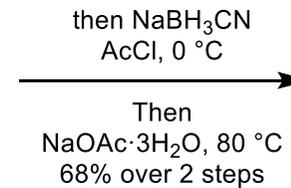
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7

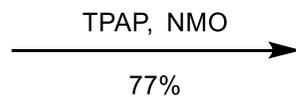


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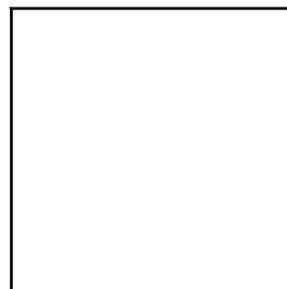


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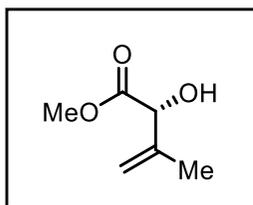


Name of the reaction?



11, Key intermediate
for divergent synthesis

Retrosynthesis?

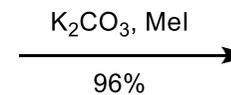


Fe(acac)₃ (1.0 equiv.)
PMHS (2.0 equiv.)
EtOH (5.0 equiv.)

then NaH

47%
3.2 : 1 d.r.

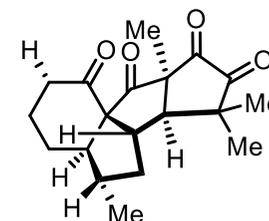
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13

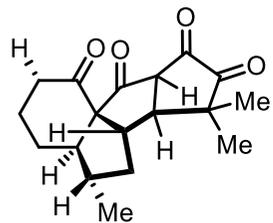
Name of the reaction?

Ac₂O, DMSO
83%

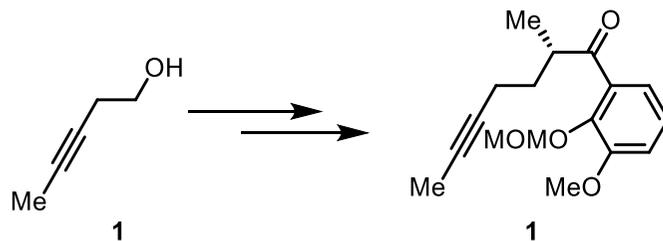


Aberrarone

Aberrarone
(Elisapterane relevant diterpenoids)

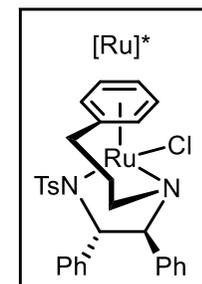
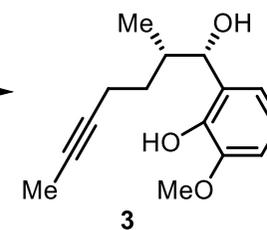


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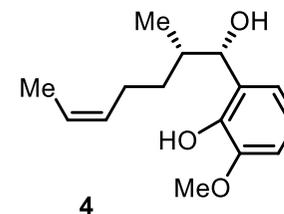


1. p-TSA, H₂O
92%

2. [Ru]*
HCO₂H, NEt₃
98%, 6:1 d.r.

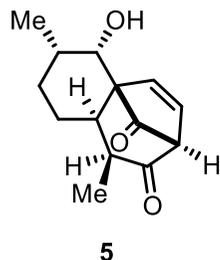
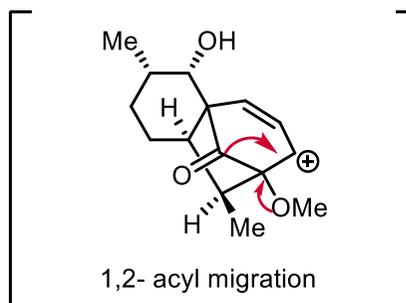


Pd/ CaCO₃
H₂
94%

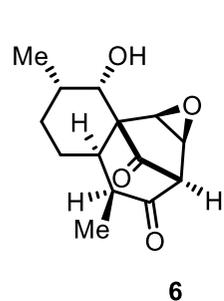


Type of reaction?

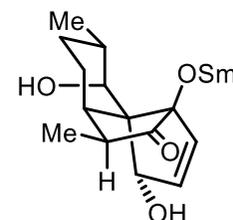
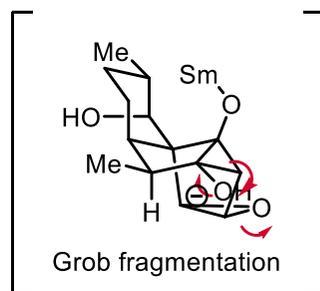
PIFA, HFIP
Na₂CO₃
60%



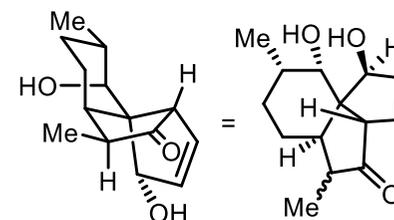
UHP, TFAA
70%



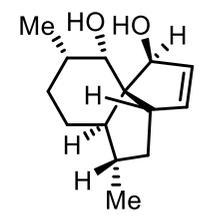
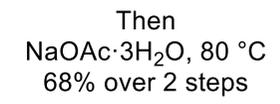
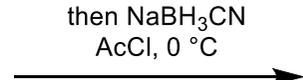
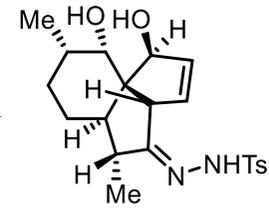
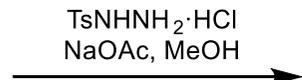
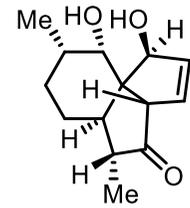
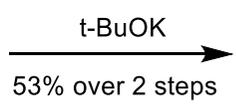
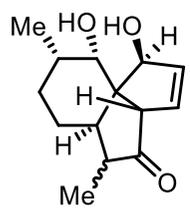
Sml₂ (4.5 equiv.), HMPA
then MeOH



α-deoxygenation



7

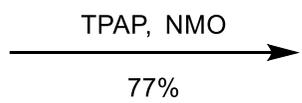
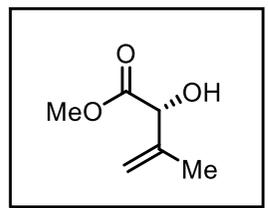


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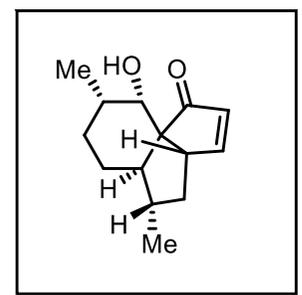
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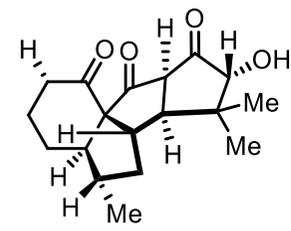
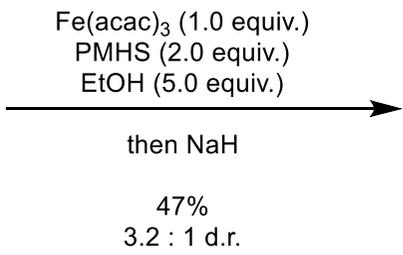
Retrosynthesis?



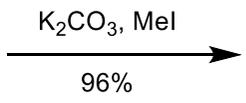
Name of the reaction?
Ley-griffith oxidation



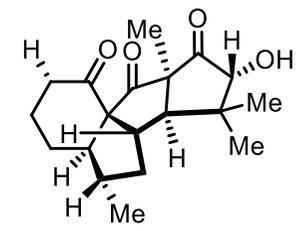
11, Key intermediate
for divergent synthesis



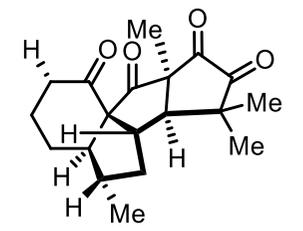
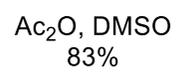
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Name of the reaction?
Albright-Goldman oxidation



13



Aberrarone

