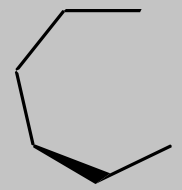
Asymmetric Total Synthesis of (–)-Phaeocaulisin A

D. J. Procter [illegible]

Fi a e ic a he i f **a a A**, hich a i a ed i 2013 f *C. phaeocaulis* a d ha h e a ab e a i-i f a a a d a ica ce ac i i .



P e i i a c e-ac i i e a i hi die i dica ed ha i bi ac i e e ie c e f i cha ac e i ic ace a ge b idge.

P a a A c ai f e a b i ed a d f c ig e e ge ic ce e .

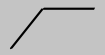
Th ee e e ge ic ce e e e ge e a ed d i g he e e f dia e e e ec i e S I_2- edia ed c c i a i .

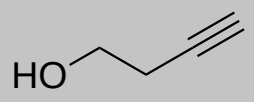
F P fe P c e S I_2- edia ed eac i ,

See; *J. Am. Chem. Soc.* **2021**, *143*. 3655.
Nat Catal. **2019**, *2,* 211.
Organomet. Chem., **2016**, *40*. 1. (Re ie a ic e)

Tomoya Ozaki, Liu Group, Boston College
2022/04/22

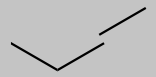
Re he ic A al i

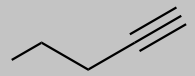




2

0.52 !/g





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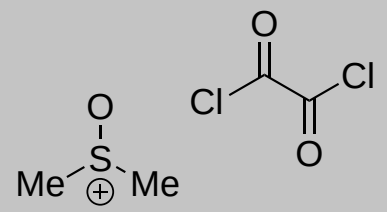
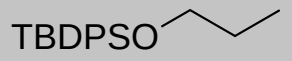
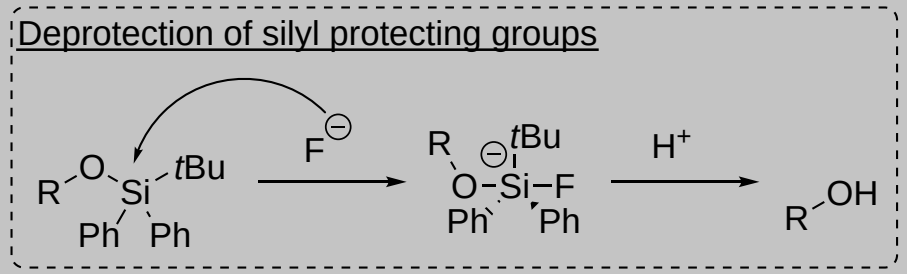
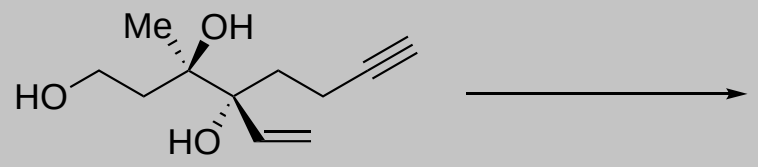
0.52 !/g

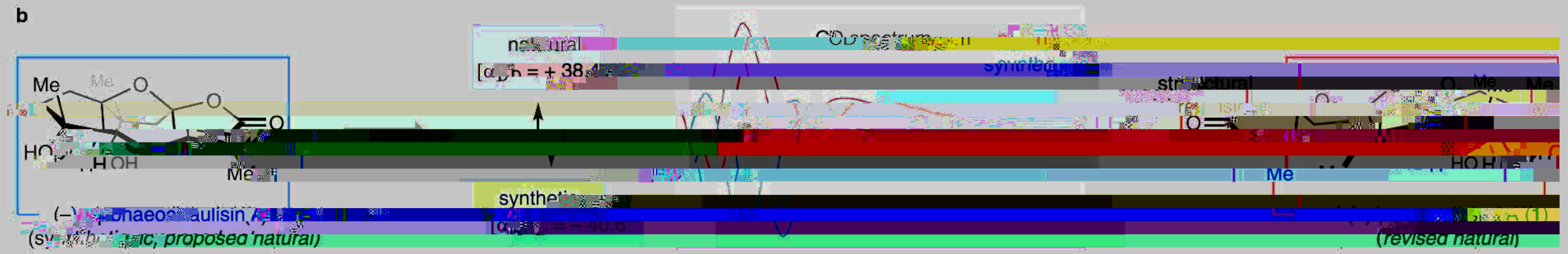
Swern Oxidation




TBDPSO


Deprotection of silyl protecting groups
R
O
Si
tBu
Ph
Ph
F
H+
OH


Me
OH
HO
HO


b
Me
Me
O
O
O
HO
H
OH
Me
(–)-Sphaeropsidin A
(synthetic, proposed natural)
natural
synthetic
structural
Me
Me
O
O
HO
H
Me
(revised natural)