

Asymmetric Total Synthesis of (-)-Phaeocaulisin A

D. J. Procter

Phaeocaulisin A, which is a natural product of *C. phaeocaulis* and has been shown to be a potent inhibitor of the growth of *C. phaeocaulis*.

Phaeocaulisin A is a bicyclic compound consisting of a bicyclic core and a side chain.

Phaeocaulisin A is a bicyclic compound consisting of a bicyclic core and a side chain.

The bicyclic core of phaeocaulisin A is a bicyclic compound consisting of a bicyclic core and a side chain.

For further information, see the following references:

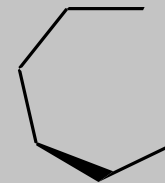
See; *J. Am. Chem. Soc.* **2021**, *143*. 3655.

Nat Catal. **2019**, *2*, 211.

Organomet. Chem., **2016**, *40*. 1. (Review article)

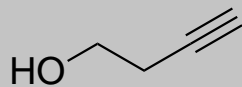
Tomoya Ozaki, Liu Group, Boston College

2022/04/22



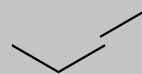
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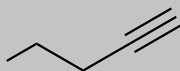




2

0.52 !/g



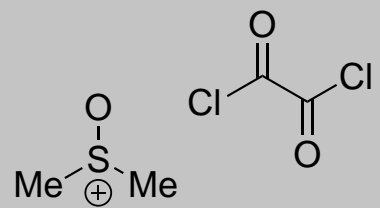


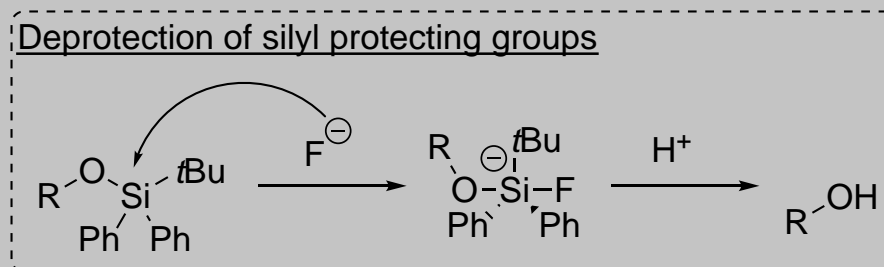
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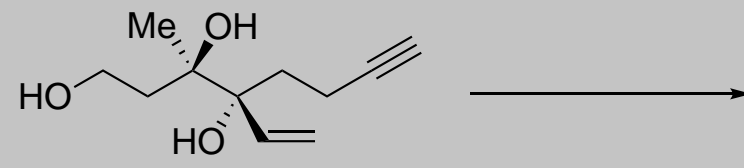
0.52 !/g



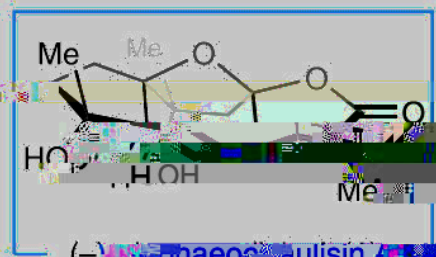
Swern Oxidation







b



natural
 $[\alpha_D^{25}] = +38.4$

synthetic
 $[\alpha_D^{25}] = -40.0$



structural
[O] = 15.1

(-)-pauisic acid
(synthetic, proposed natural)

(revised natural)