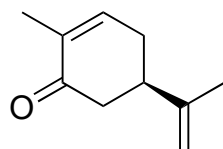


Total Synthesis of (+) Cyperolone

Stefan F. Kirsch, *Org. Lett.* **2012**, *14*(5), 1250–1253

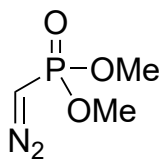


name?

1) ClCH_2I , $\text{MeLi}\cdot\text{LiBr}$ -70°C
2) KOH , 75°C dioxane

1) TIPSCl
2) PCC, C

name (type o



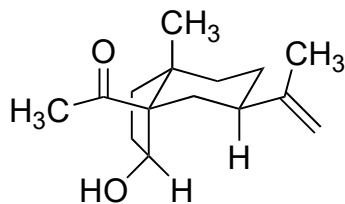
K-OtBu

name?

1) $\text{VO}(\text{acac})_2$,
2) $\text{SO}_3\cdot\text{Py}$, $i\text{Pr}$

1) LiAlH_4
2) HgO , H_2SO_4 ,
then $\text{H}_2\text{O}/\text{Acetone}$

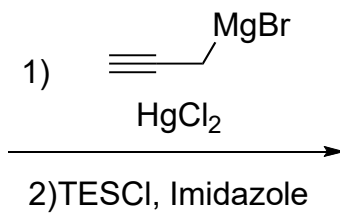
explain the
regioselectivity of the
first step, name the
second step



(+) Cyperolone

15 steps, 4.3% overall yield

I, Imidazole
OCM
→
f the reaction)?



t-BuOOH
Et₃N

1) *p*Ts-NHNH₂, *p*-TsOH
2) DIBAL-H
3) TBAF
←

PtCl₄, COD
23°C
↓

