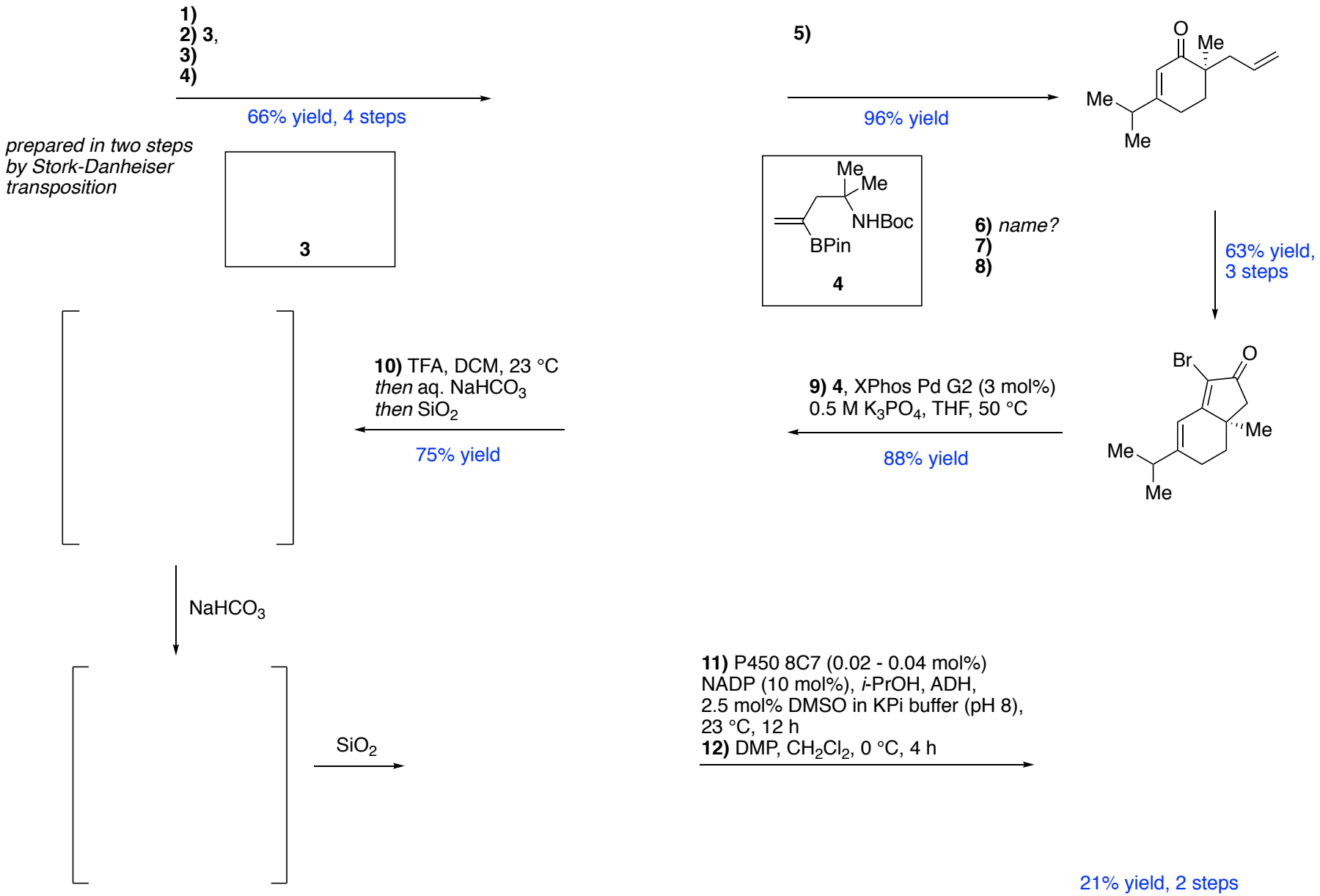
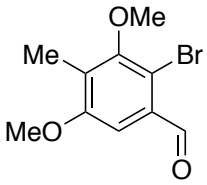


[1] S. A. Loskot, D. K. Romney, F. H. Arnold, B. M. Stoltz, *J. Am. Chem. Soc.* **2017**, *139*, 10196 - 10199.



1) 1,

then

99% yield

Name?

2)

77% yield

1') 2, CsF, MeCN, 80 °C, 2h
then aq. NH_4OH, 60 °C, 8 h

45% yield

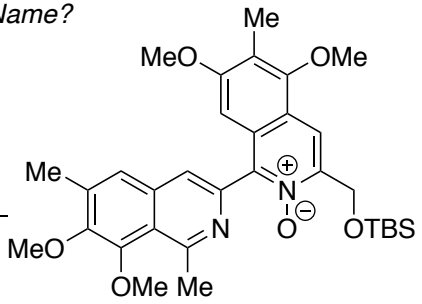
2') Tf_2O, pyridine,
CH_2Cl_2, 0 °C, 30 min

94% yield

3) $Pd(OAc)_2$ (20 mol%)
$P(t\text{-}Bu)_2Me^*HBF_4$ (50 mol%)
CsOPiv (40 mol%)
Cs_2CO_3 (3.5 eq.)
toluene, 130 °C, 4.5 h

93% yield

Name?



4)

not isolated

5)

62% yield

Name?

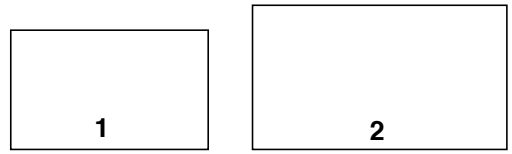
6)
then

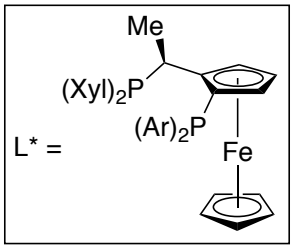
61% yield

Name?

7)
then

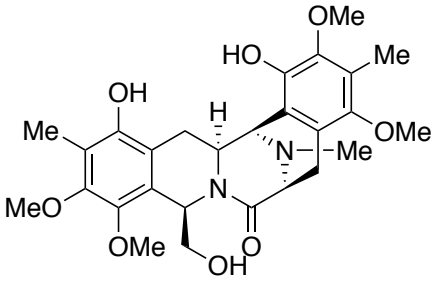
65% yield





8) H_2 (60 bar), $[Ir(cod)Cl]_2$, L*
TBAI, 60 °C, 18 h —> 80 °C, 24 h

83% yield
>20:1 d.r.
>99% (after recryst.)



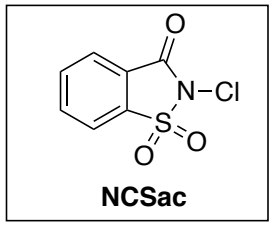
11) Pd G3 Dimer (50 mol%),
AdBippyPhos (200 mol%),
$CsOH^*H_2O$, dioxane,
90 °C, 3 h

46% yield

9)

10)

66% yield, 2 steps



NCSac

12) $Li(EtO)_2AlH_2$, THF, 0 °C, 45 min
then AcOH, KCN
13) DDQ, acetone, H_2O, 23 °C, 1 h

50% yield

+

14) Ac_2O, DMAP, MeCN
then aq. $AgNO_3$, 45 °C, 30 min

33% yield

32% yield

Jorunnamycin A

68% yield

(—)-Jorumycin

[2] E. R. Welin, A. Ngamnithiporn, M. Klatte, G. Lapointe, G. M. Pototschnig, M. S. J. McDermott, D. Conklin, C. D. Gilmore, P. M. Tadross, C. K. Haley, K. Negoro, E. Glibstrup, C. U. Grünager, K. M. Allen, S. C. Virgil, D. J. Slamon, B. M. Stoltz, *Science* **2019**, *363*, 270 - 275.