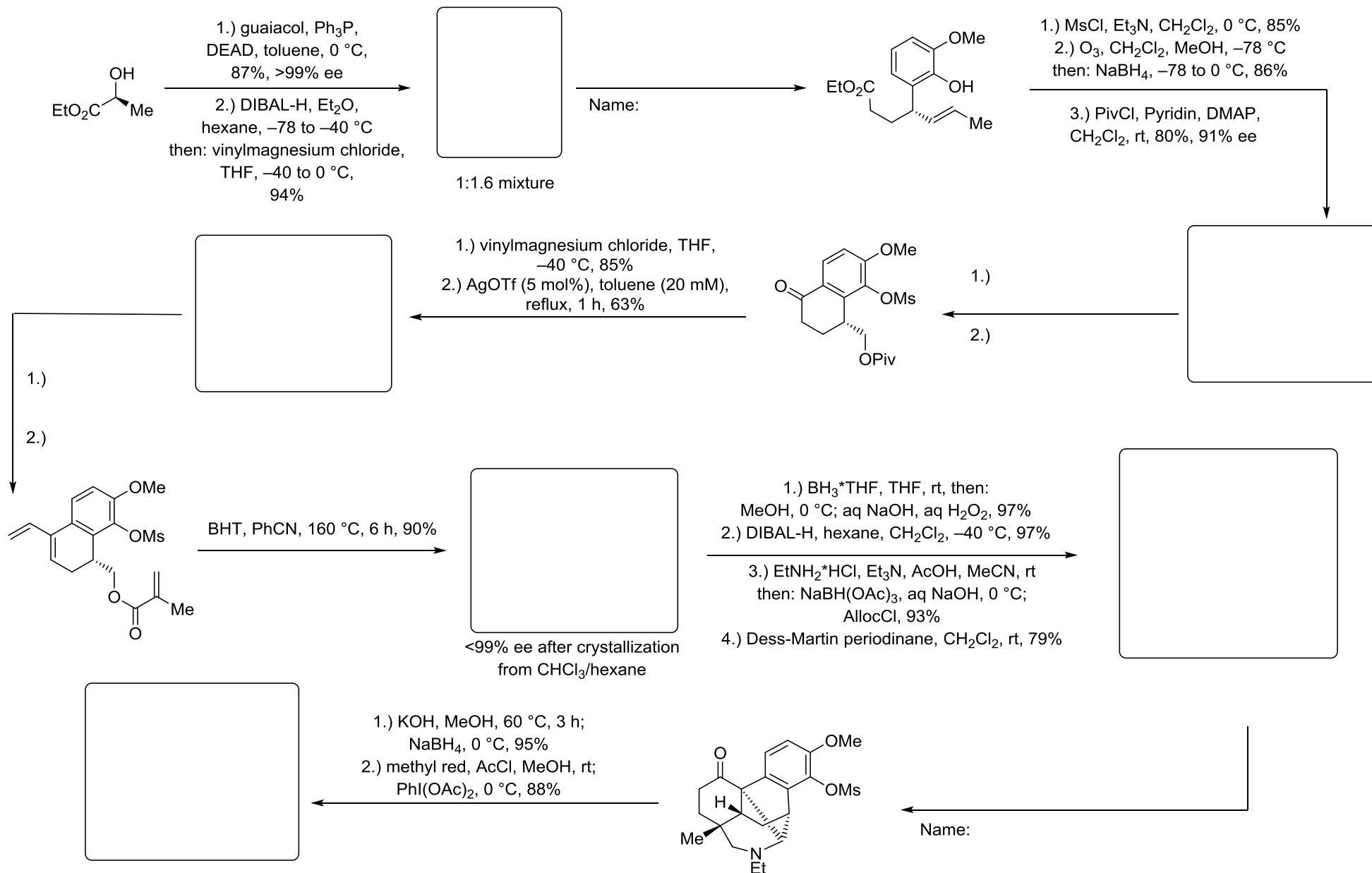
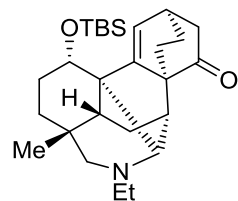


Total Synthesis of (-)-Lepenine

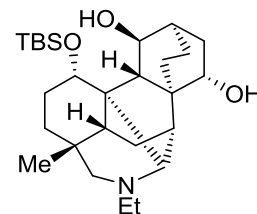
Y. Nishiyama, Y. Han-ya, S. Yokoshima, T. Fukuyama *J. Am. Chem. Soc.* 2014, 136, 6598–6601



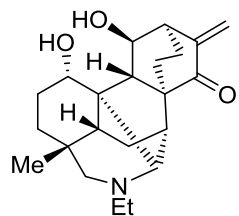
1.) ethylene (70 bar), CH₂Cl₂,
70 °C, 5 d, 84%
2.) TBSOTf, 2,6-lutidine, CH₂Cl₂,
rt, 91%
3.) SmI₂, MeOH, 0 °C, 96%



1.)
2.)



Dess-Martin periodinane, TFA,
CH₂Cl₂, rt, 72%



(-)-Lepenine

1.) NaBH₄, CeCl₃·7H₂O, MeOH, 0 °C, 83%
Name:
2.)

HCO₂Et, KHMDS, toluene, 70 °C;
aq HCHO, THF, 50 °C, 70%

