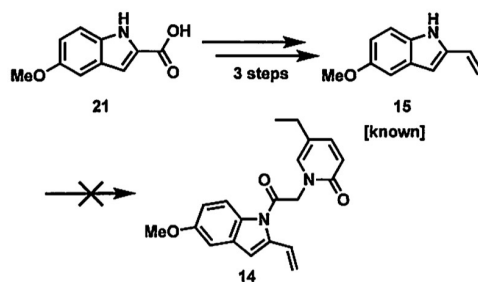
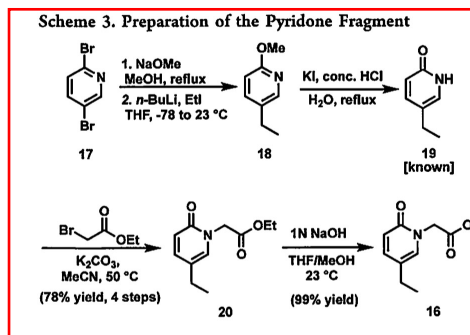
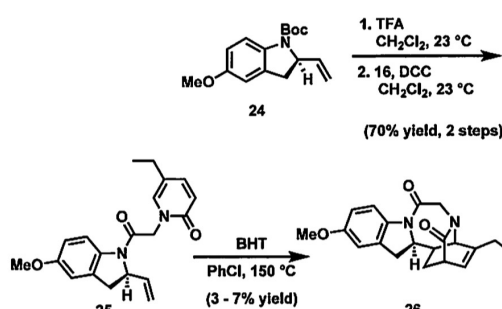


a unique caged system, bearing a 1,4-diazepine fused oxazolidine moiety and containing three successive N,O-acetals + the α -aza- β -oxobicyclo [2.2.2]octene core



the diminished nucleophilicity of the indole nitrogen

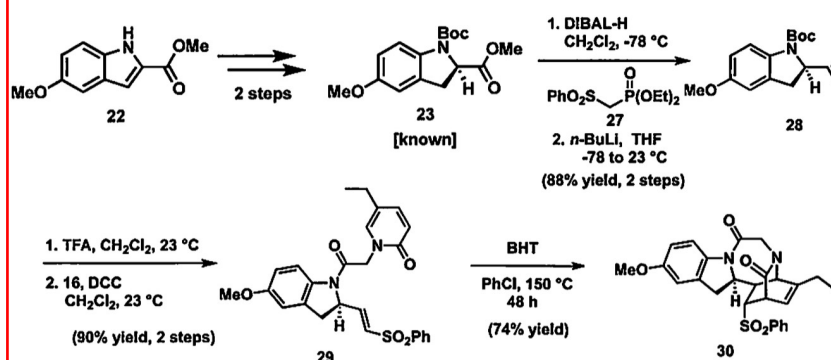
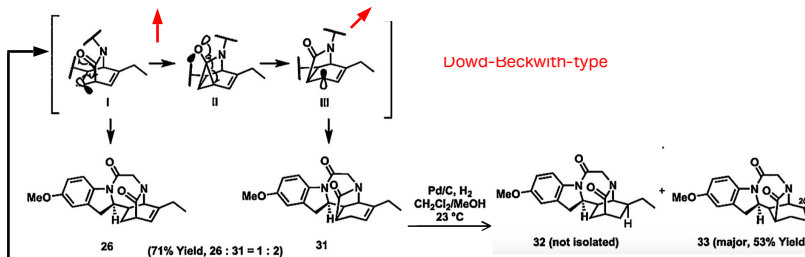


+ equimolar amounts of regioisomer

3-exo-trig cyclization

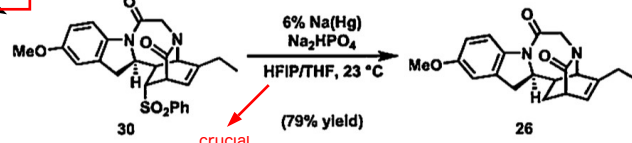
stable allylic

Lowd-Beckwith-type

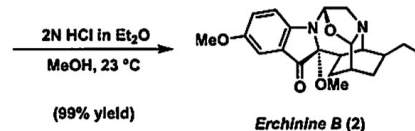
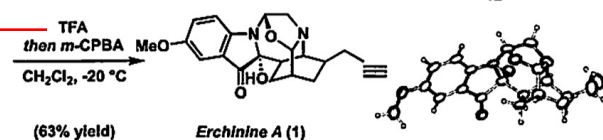
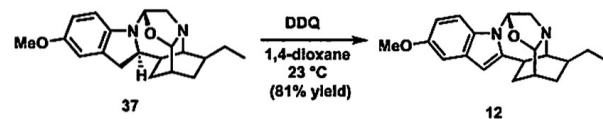
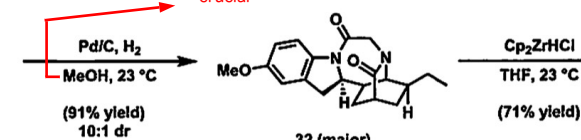


6% Na(Hg)
Na₂HPO₄, MeOH
0 to 23 °C

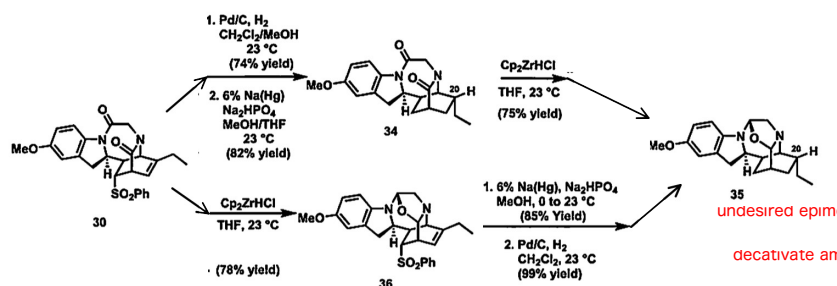
Zr-mediated reduction using



crucial



changing the order or events



undesired epimer

deactivate amines