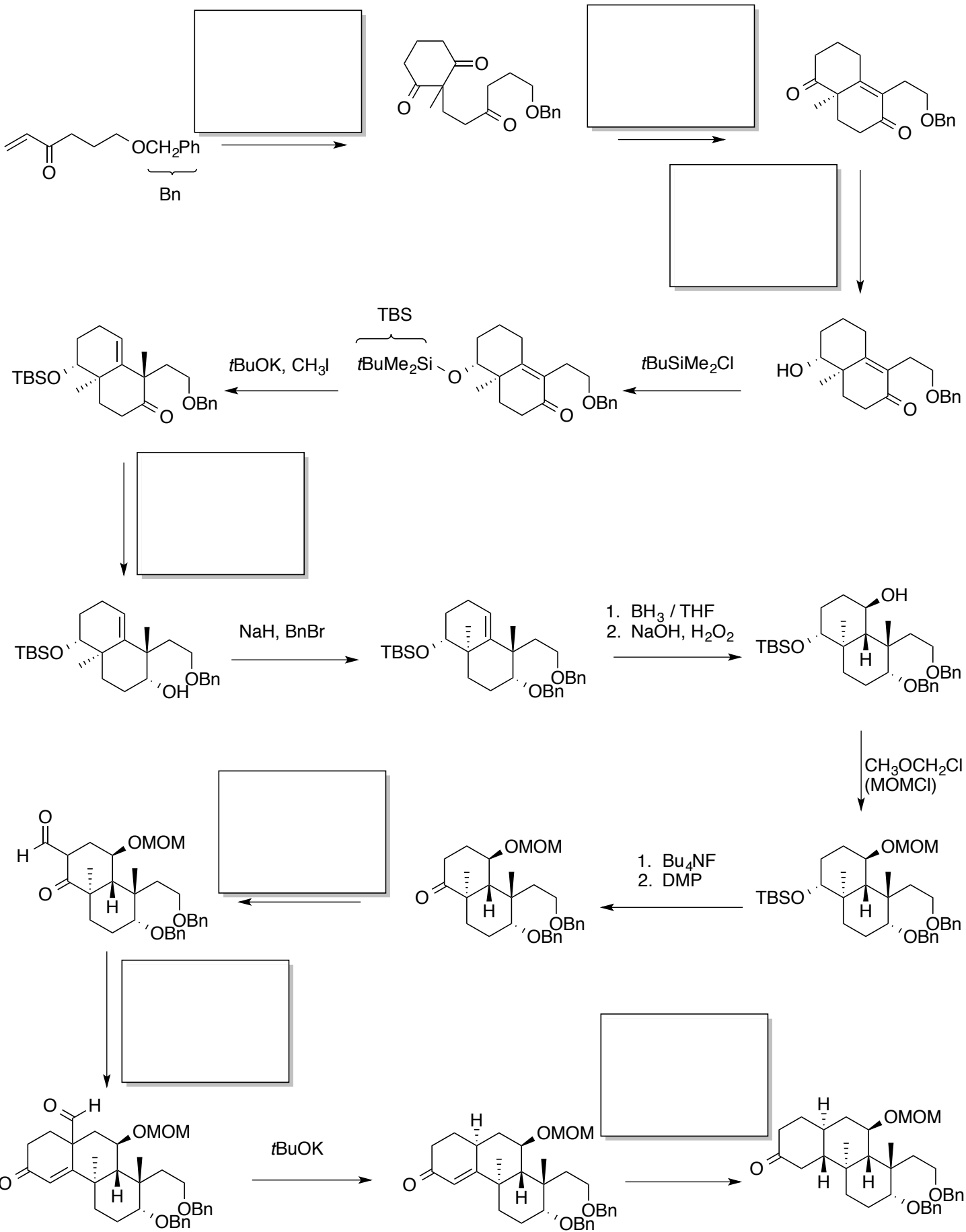
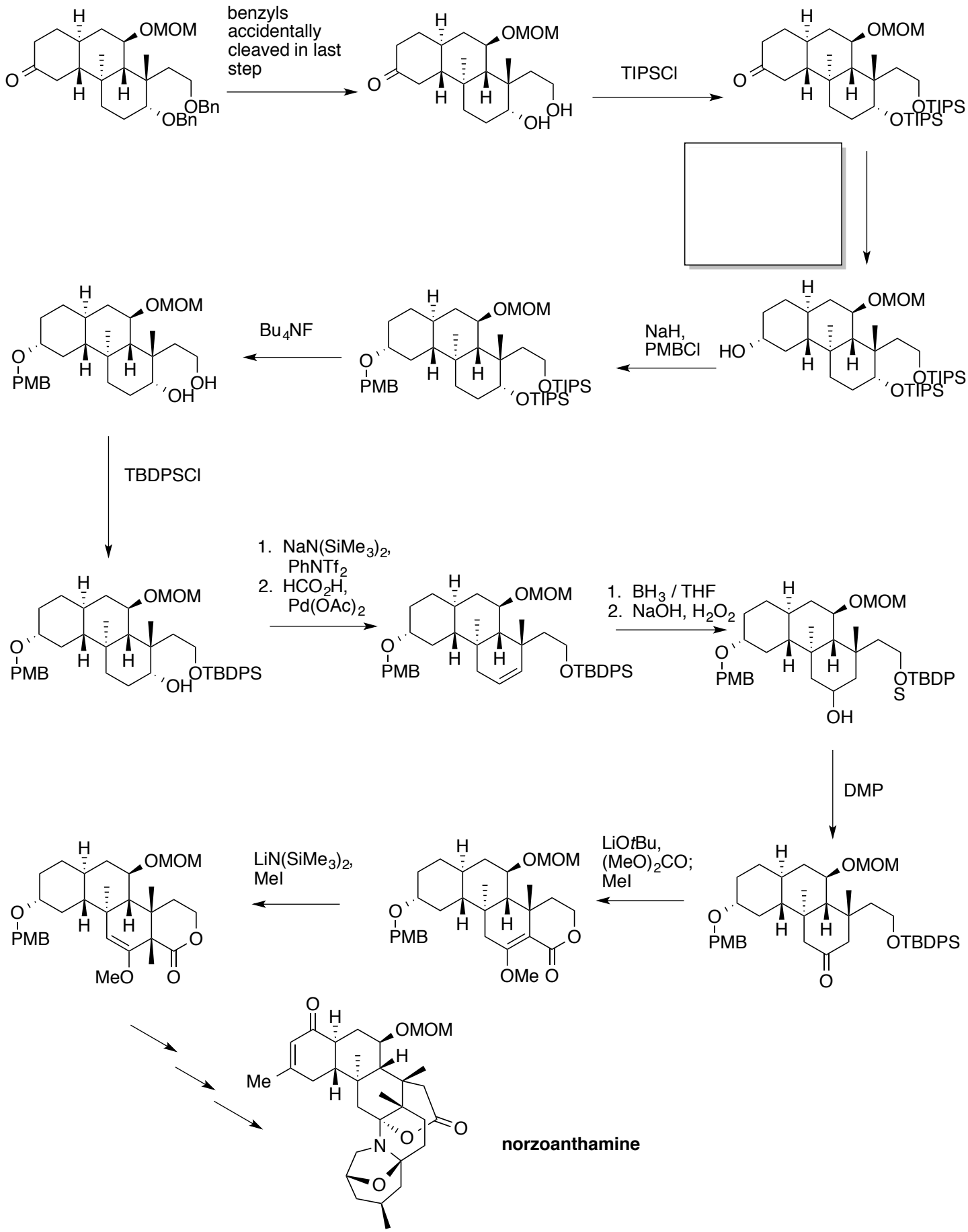
Partial Syntheses of Norzoanthamine (Thoedorakis, UCSD, 2011)
Marine natural product of *Zoanthus sp.* Demonstrated anti-osteoporotic effects in mice.




benzyls accidentally cleaved in last step
TIPSCl
NaH, PMBCl
Bu4NF
TBDPSCl
1. NaN(SiMe3)2, PhNTf2
2. HCO2H, Pd(OAc)2
1. BH3 / THF
2. NaOH, H2O2
DMP
LiOtBu, (MeO)2CO; MeI
LiN(SiMe3)2, MeI
norzoanthamine