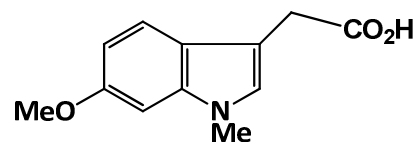
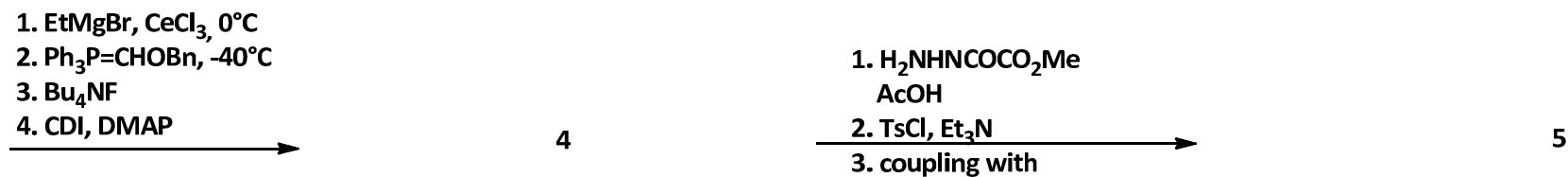
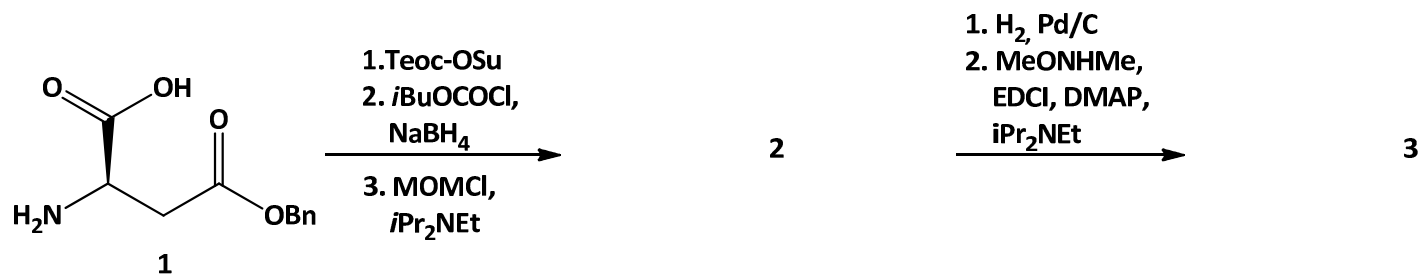


Denksport, Petra Malova 22.3.2012 Kato, D.; Sasaki, Y.; Boger, D. L. *J. Am. Chem. Soc.* **2010**, *132*, 3685-3687.



7

1. $\text{LiAlH}(\text{OtBu})_3$
2. Ac_2O , DMAP, pyridine
3. MeOTf, 2,6-ditertbutylpyridine
4. NaBH_4 , MeOH
5. HCl, MeOH

8

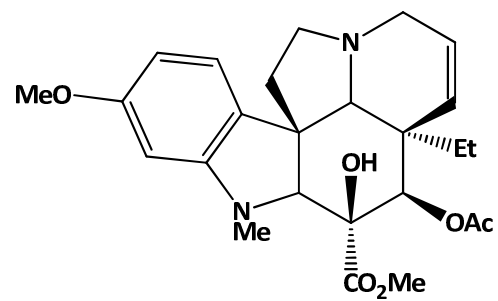
1. $\text{SO}_3\text{-py}$, DMSO, Et_3N , CH_2Cl_2
2. SiO_2 , Et_3N

9

1. TsCl, DMAP, Et_3N
2. NaOAc, dioxane- H_2O , 70°C
3. L-selectride

10

Ph_3P , DEAD



Vindoline