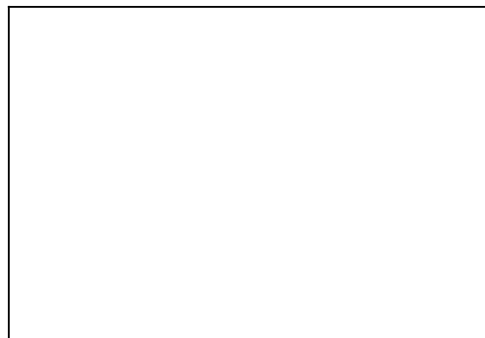
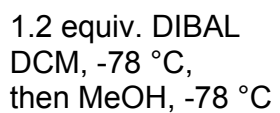
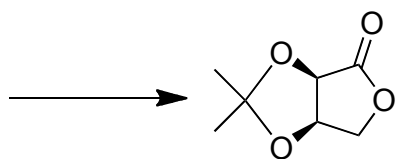
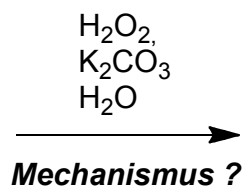
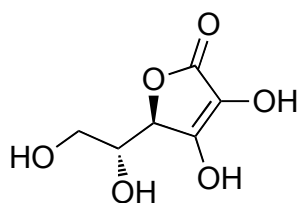
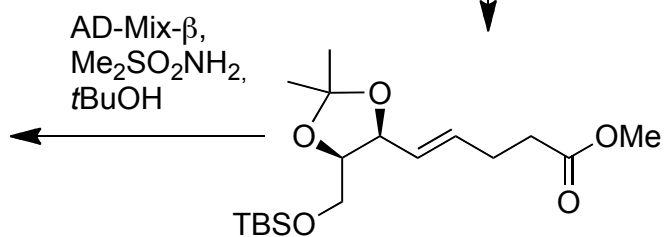


# Worksheet 19

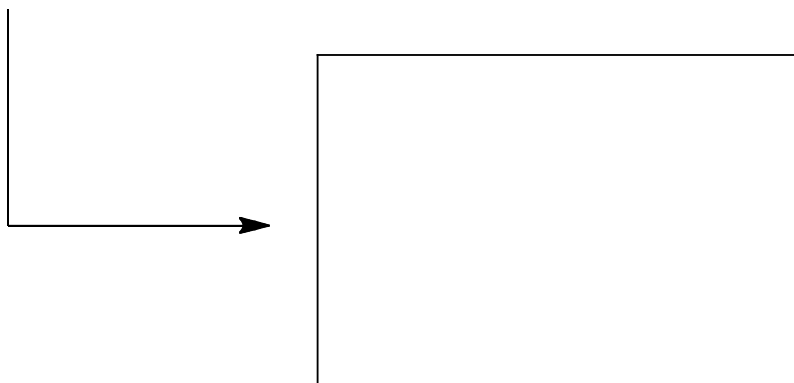


1. 3.0 equiv. Vinyl-Grignard, -78 °C
2. TBS-Cl, IMID, THF/DMF (3:1), 0 °C

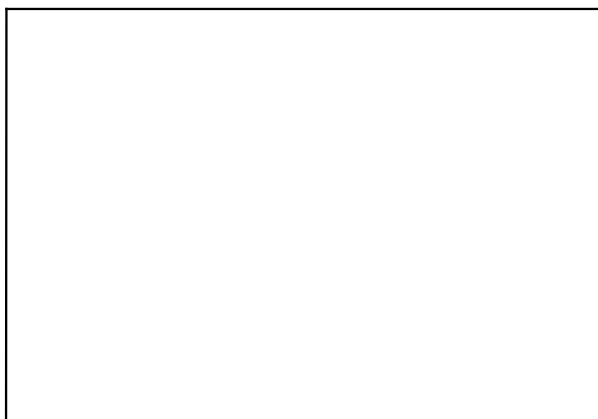
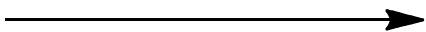


1.

2. 3.0 equiv. MsCl, DMAP, Py, 0 °C
3. 5.0 equiv. NaN<sub>3</sub>, DMSO, 80 °C



1. Pd(OH)<sub>2</sub>, H<sub>2</sub>, MeOH  
2. NaOMe, MeOH, reflux



1.

2.

