

# СИНТЕЗ (+)-APLYKURODINONE-1

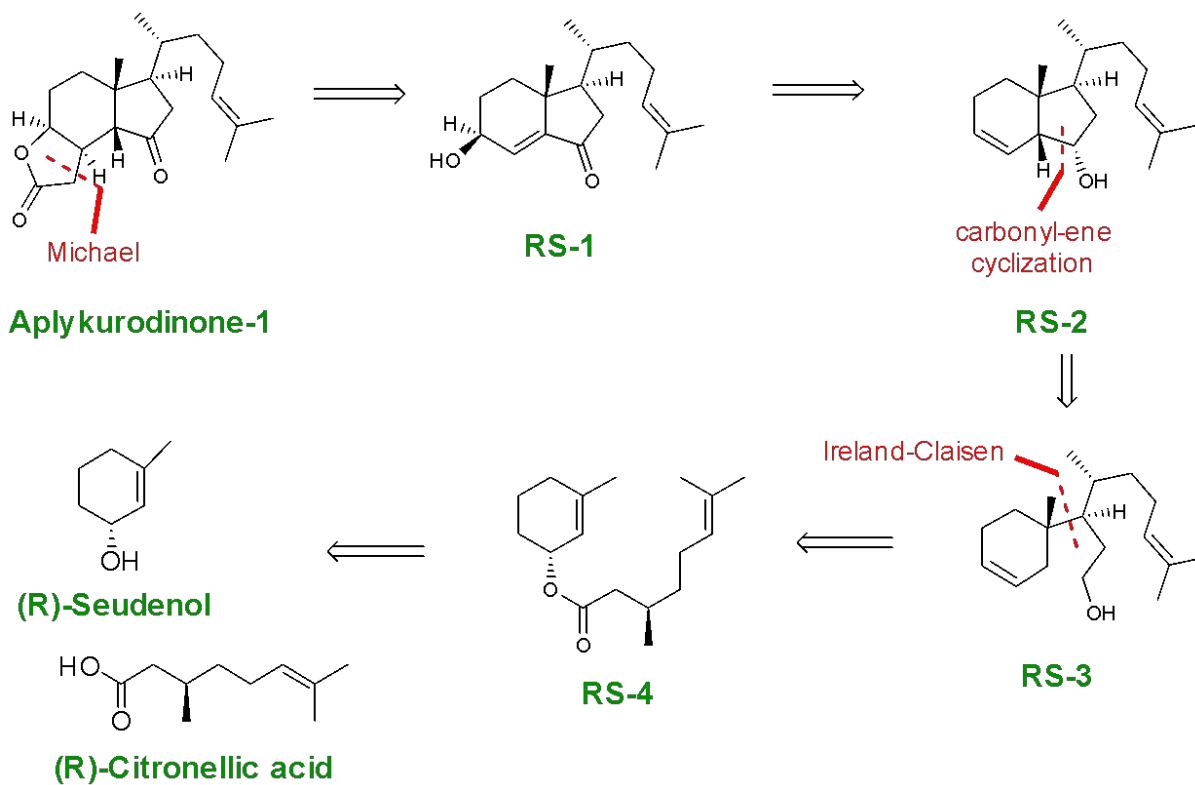
Вера Дорохова  
ВХК РАН, А-41

# SIPHONOTA GEOGRAPHICA

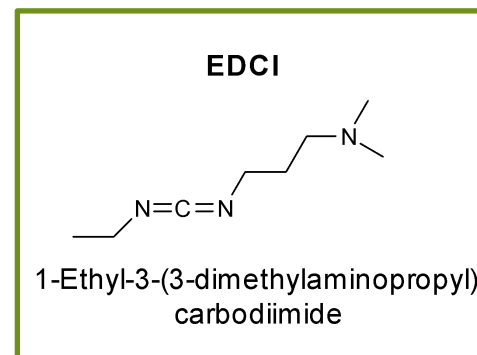
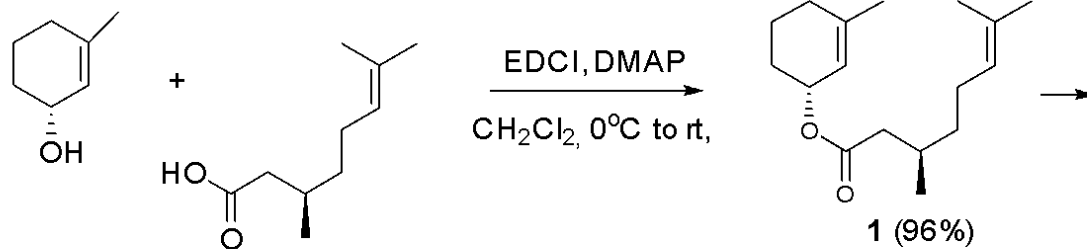
---



# РЕТРОСИНТЕТИЧЕСКИЙ АНАЛИЗ



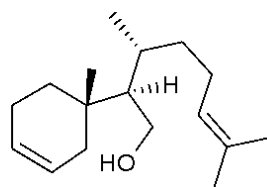
# СИНТЕЗ



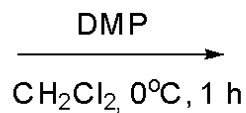
1) LDA, TBSCl  
THF/HMPA,  
-78°C to rt

2) toluene, 80°C, 20 h  
3) DIBAL-H, -78°C, 1 h

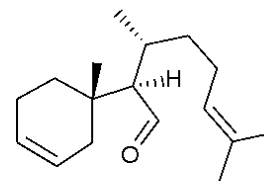
*enolization +  
Ireland-Claisen +  
reduction of the silyl ester*



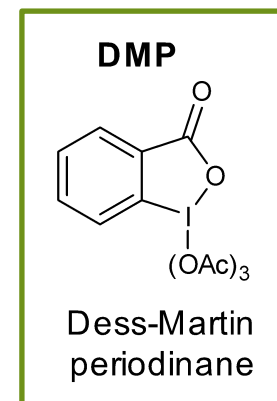
2 (60%, d.r. 11:1)



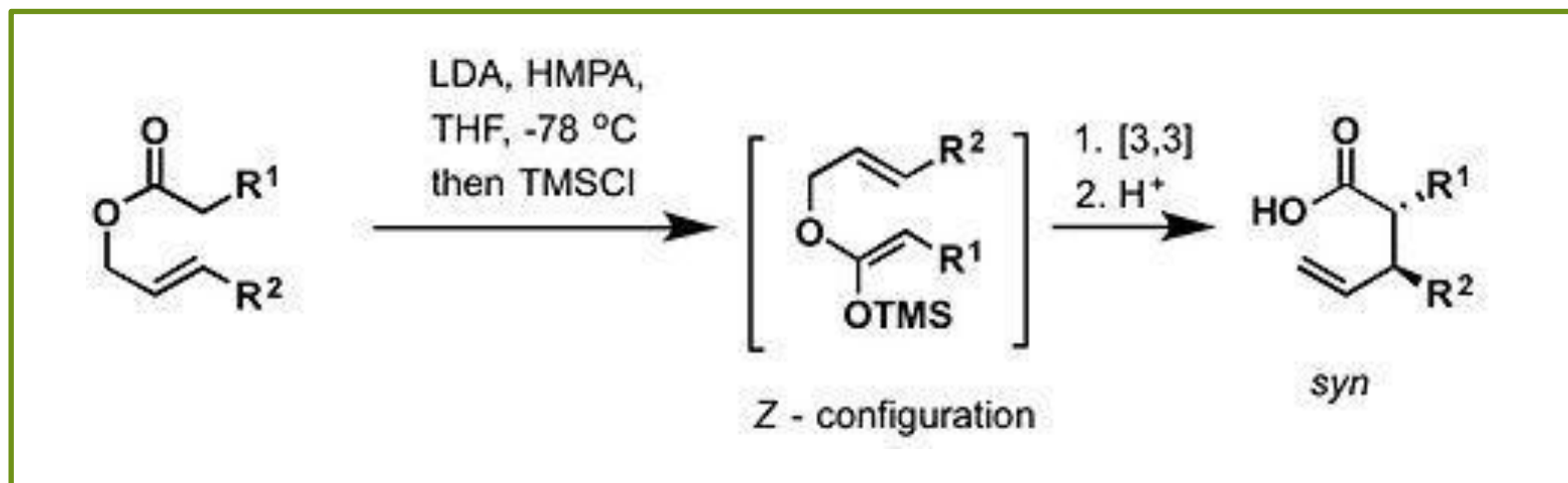
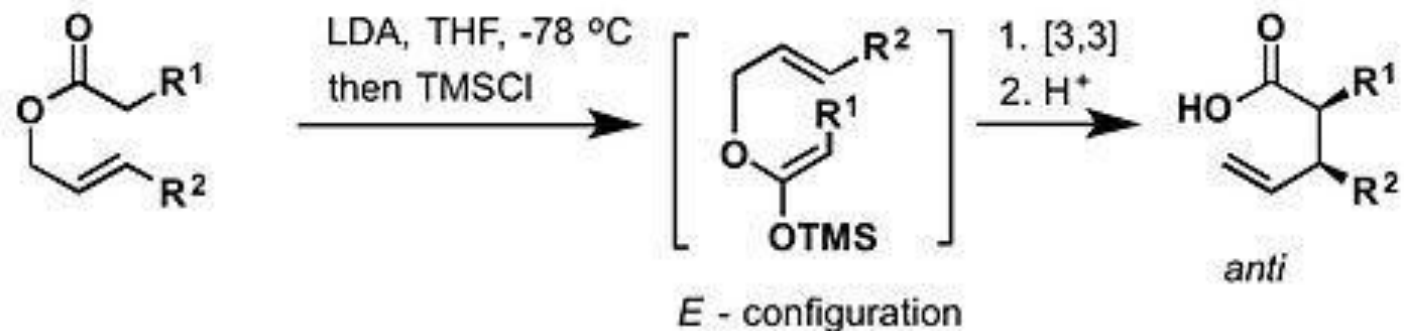
*Dess-Martin  
oxidation*



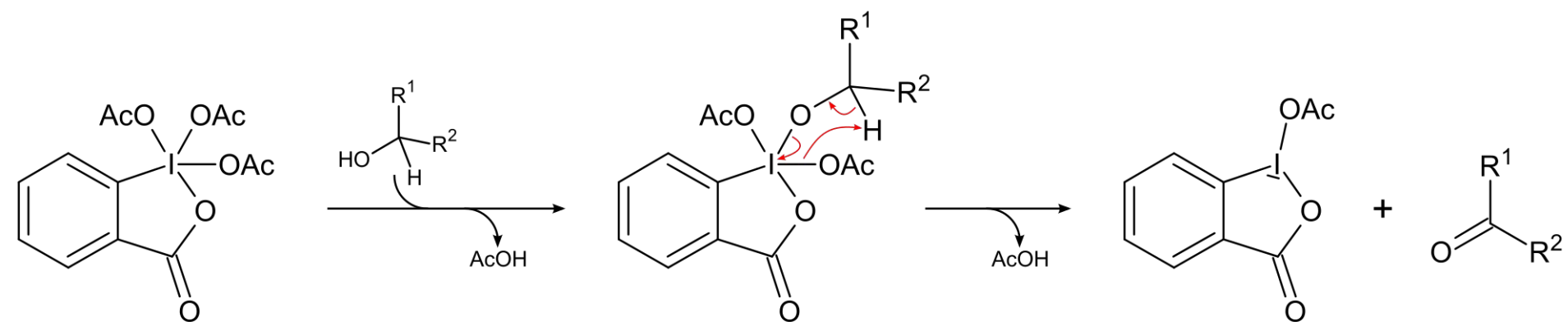
3 (95%)

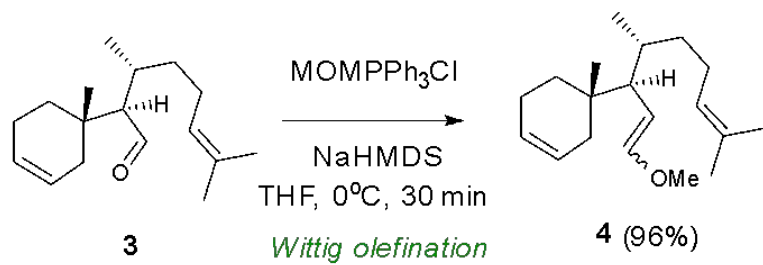


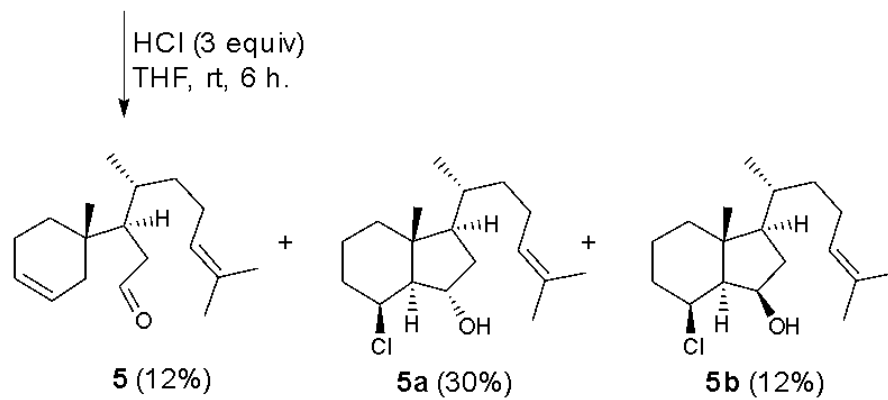
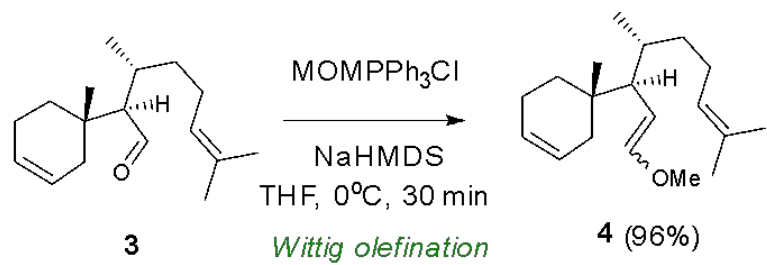
# IRELAND-CLAISEN REARRANGEMENT



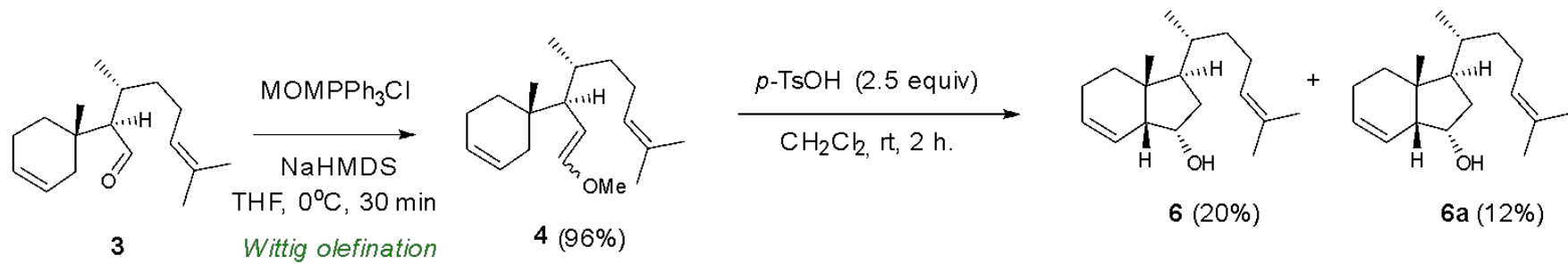
# DESS-MARTIN OXIDATION

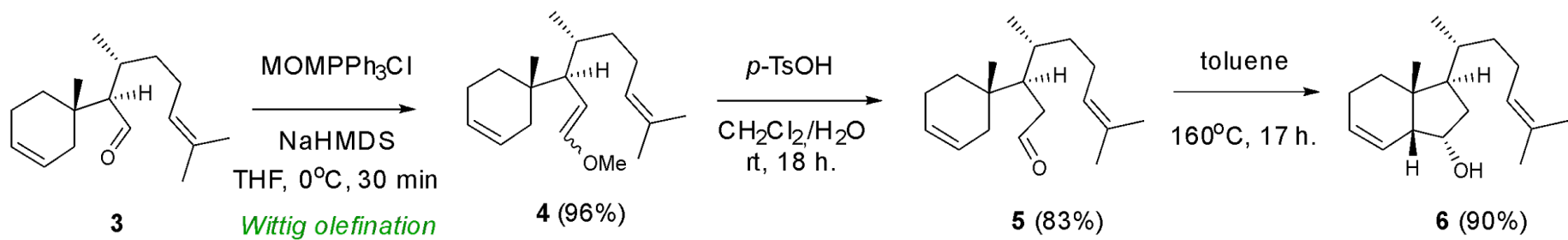


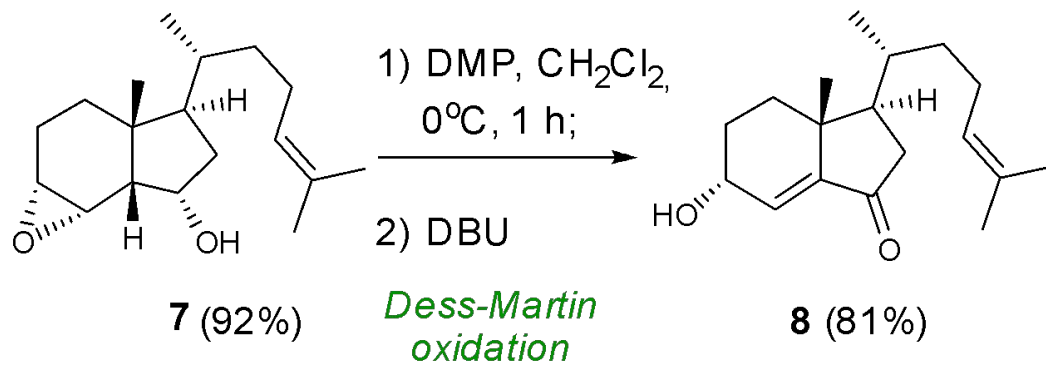
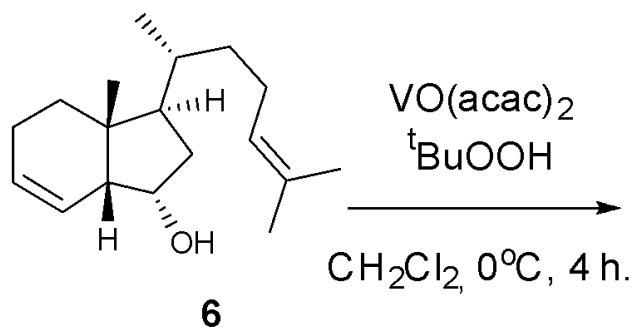


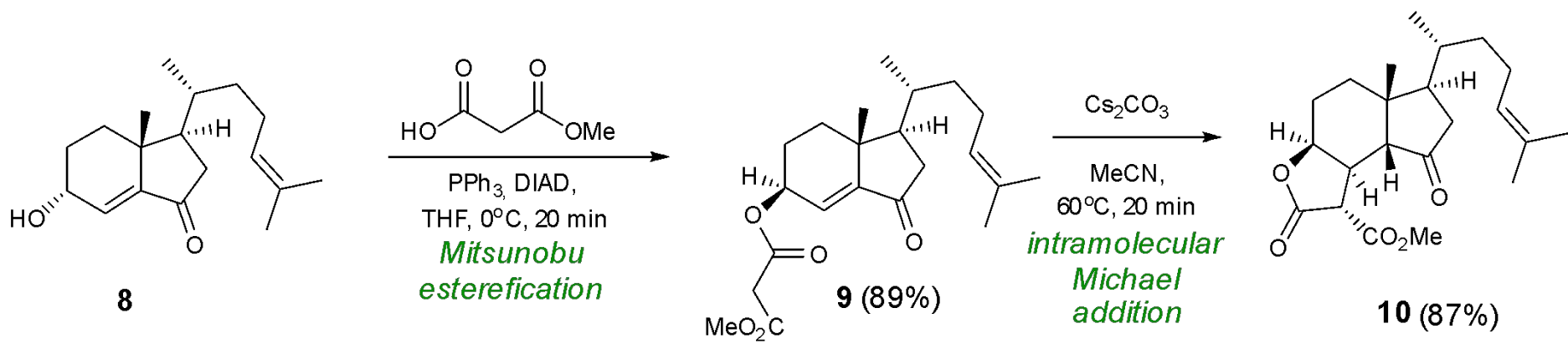




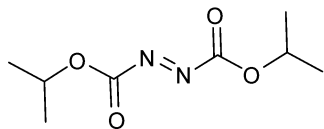






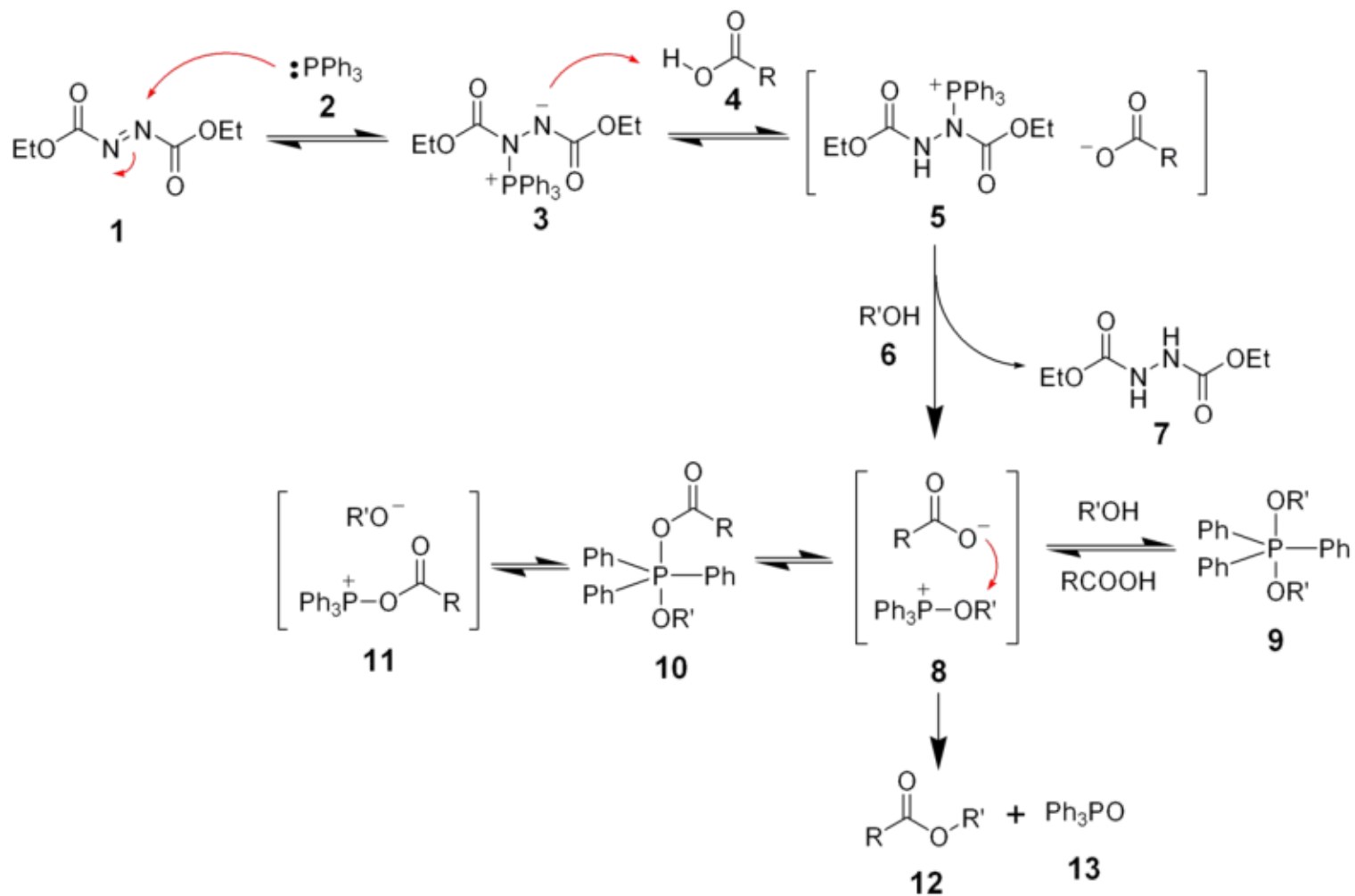


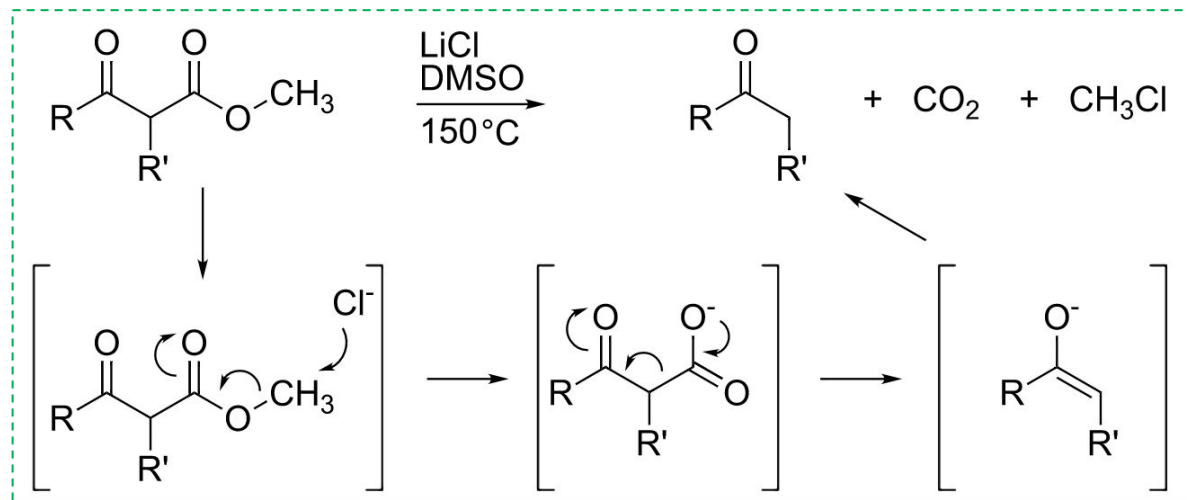
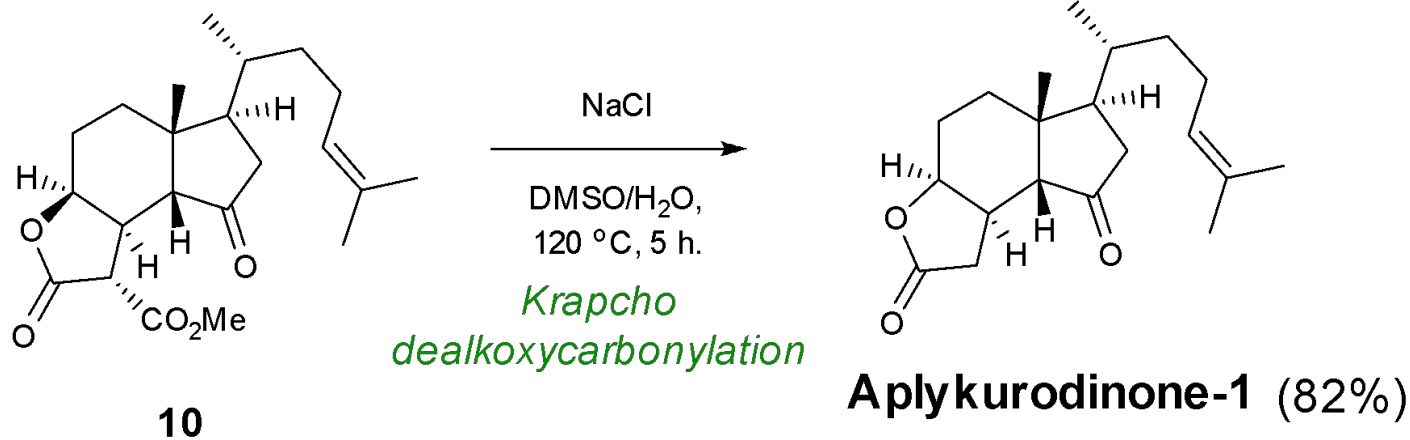
**DIAD**



Diisopropyl azodicarboxylate

# MITSUMOBU ESTERIFICATION





- ✓ 11 steps
- ✓ 19% overall yield
- ✓ Full stereochemical control
- ✓ No protecting groups

**СПАСИБО ЗА ВНИМАНИЕ!**