

# СИНТЕЗ (+)-APLYKURODINONE-1

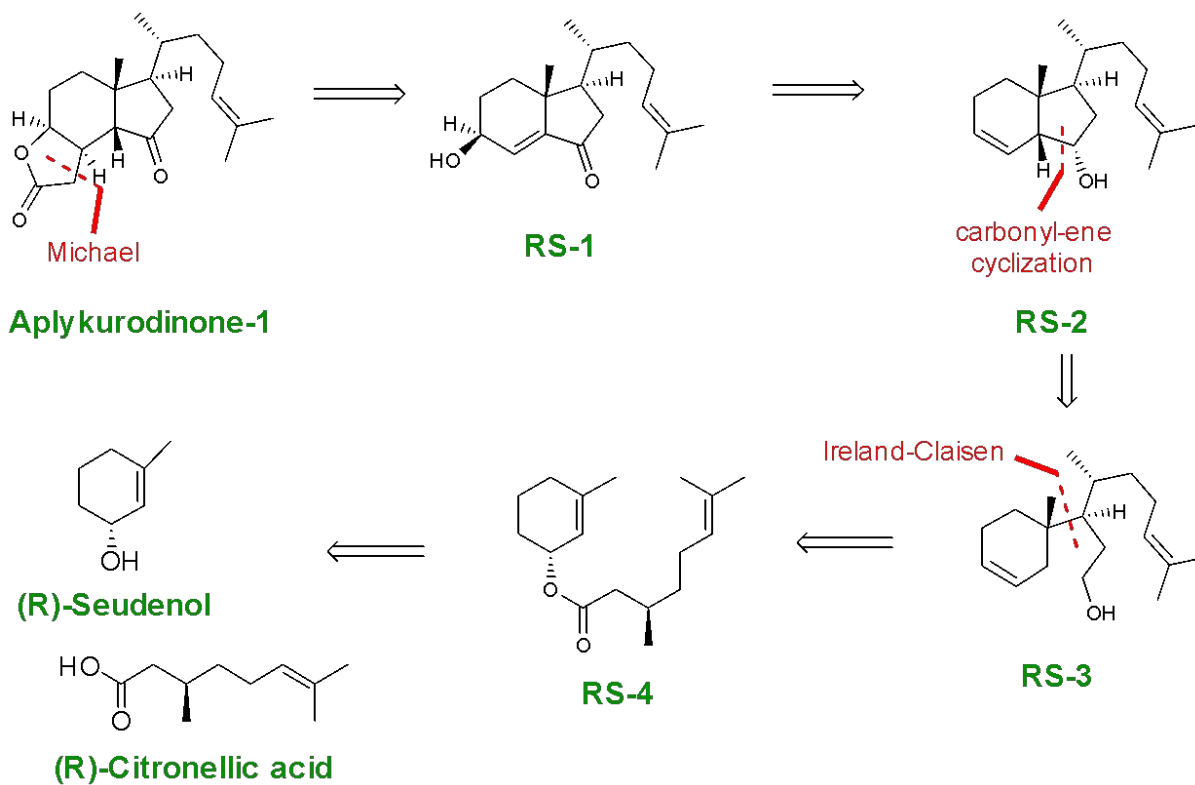
Вера Дорохова  
ВХК РАН, А-41

# SIPHONOTA GEOGRAPHICA

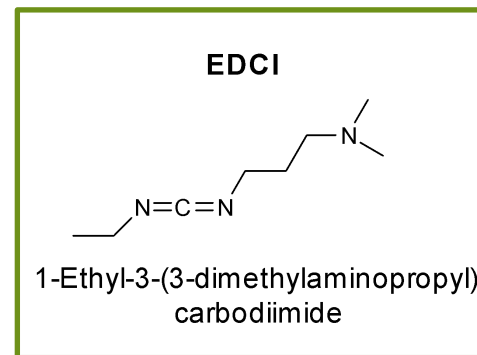
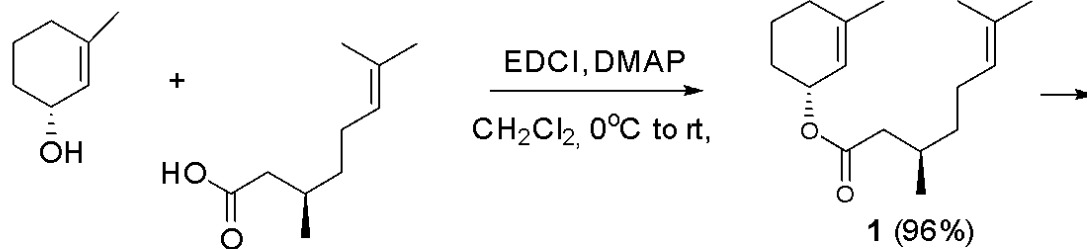
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# РЕТРОСИНТЕТИЧЕСКИЙ АНАЛИЗ



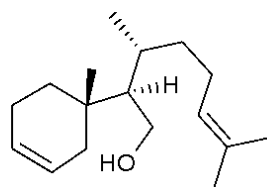
# СИНТЕЗ



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

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

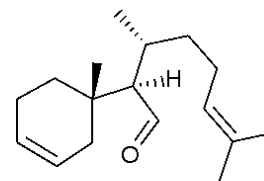
*enolization +  
Ireland-Claisen +  
reduction of the silyl ester*



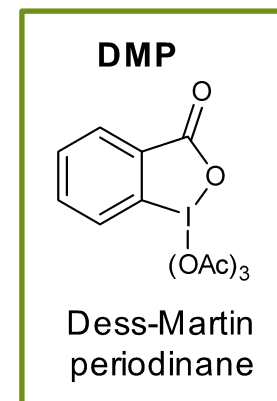
2 (60%, d.r. 11:1)

DMP  
CH<sub>2</sub>Cl<sub>2</sub>, 0°C, 1 h

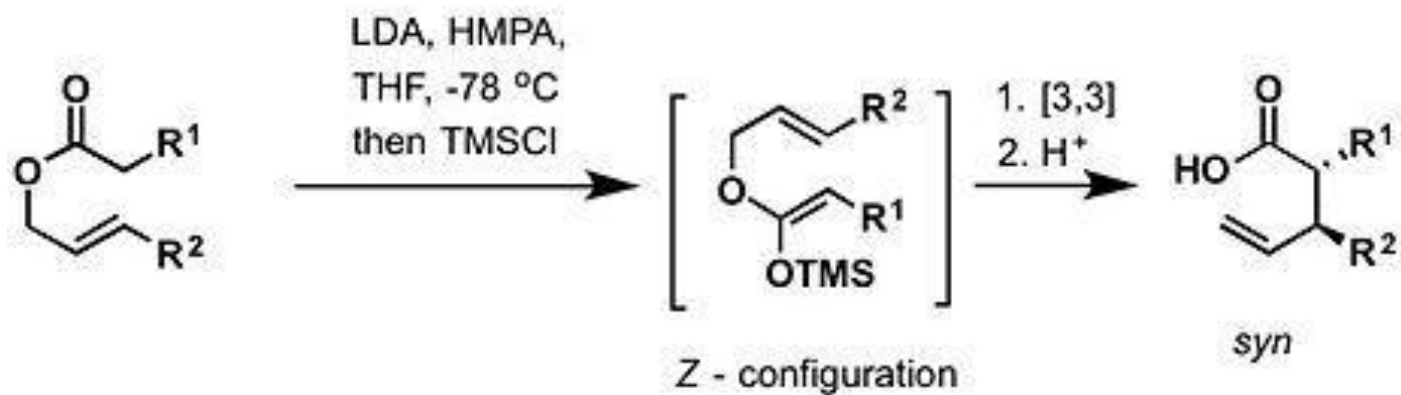
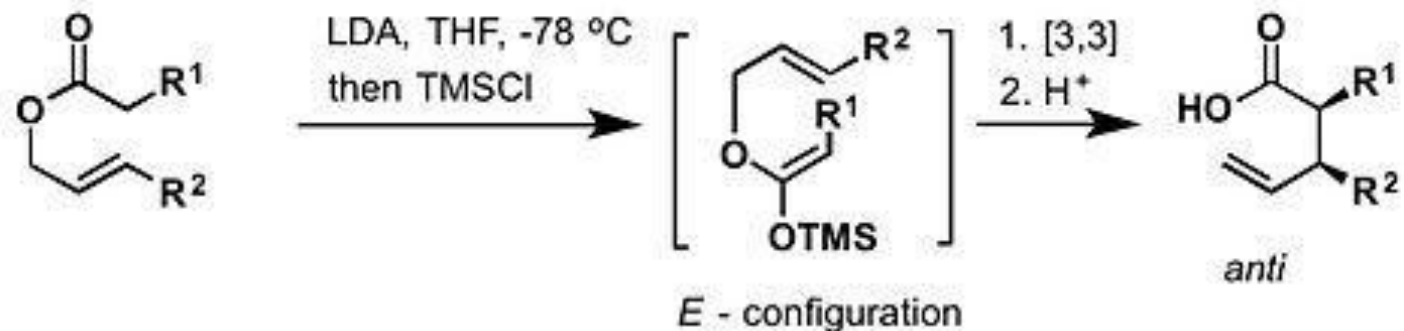
*Dess-Martin  
oxidation*



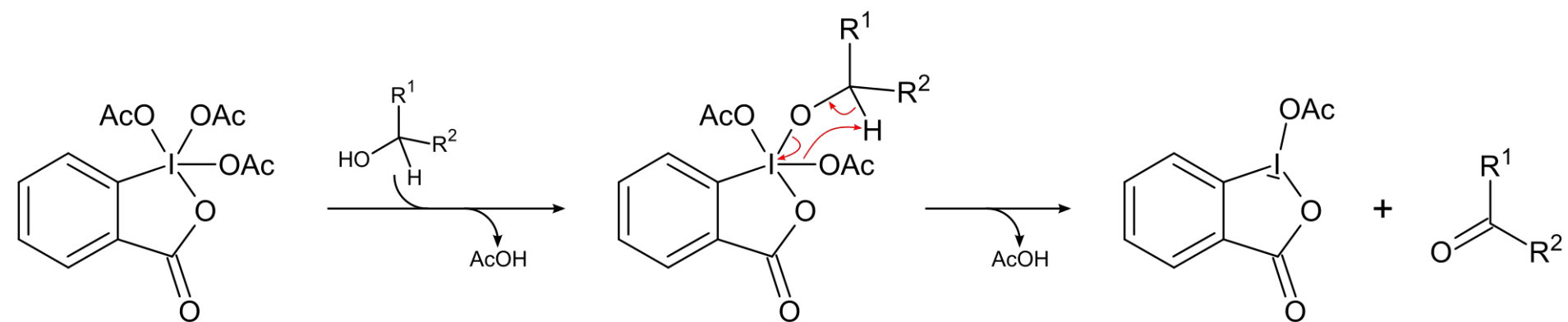
3 (95%)

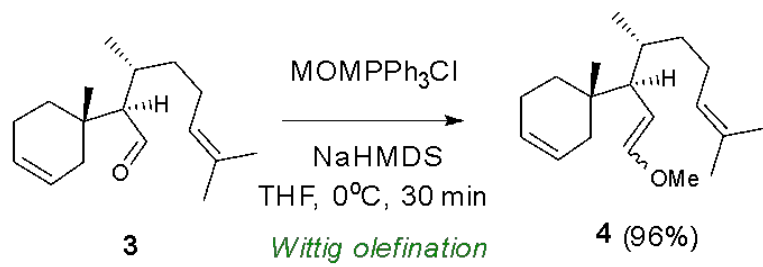


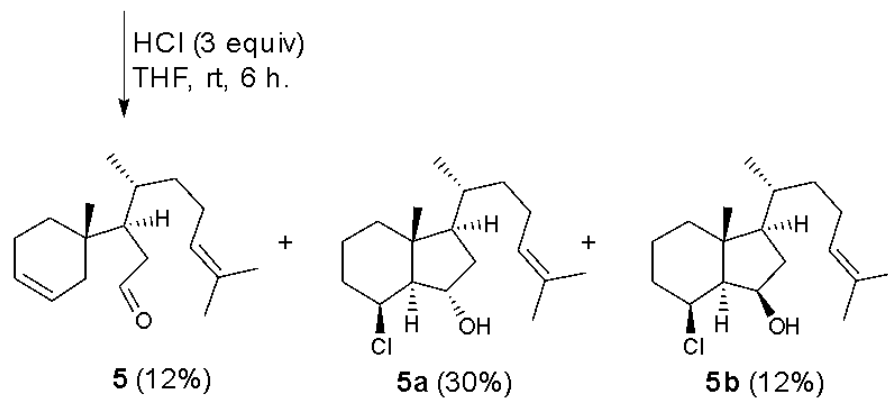
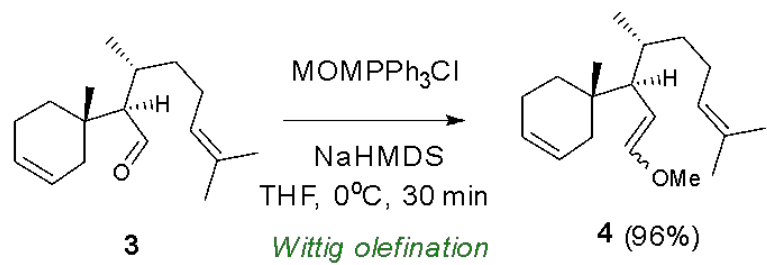
# IRELAND-CLAISEN REARRANGEMENT



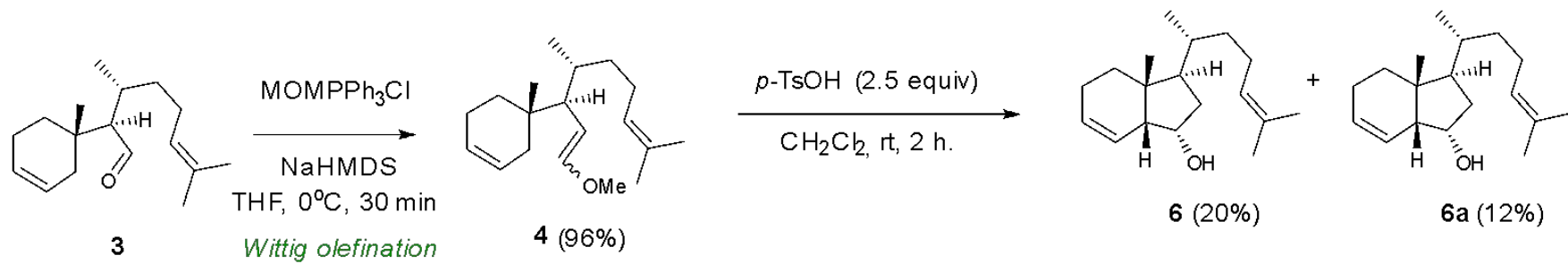
# DESS-MARTIN OXIDATION

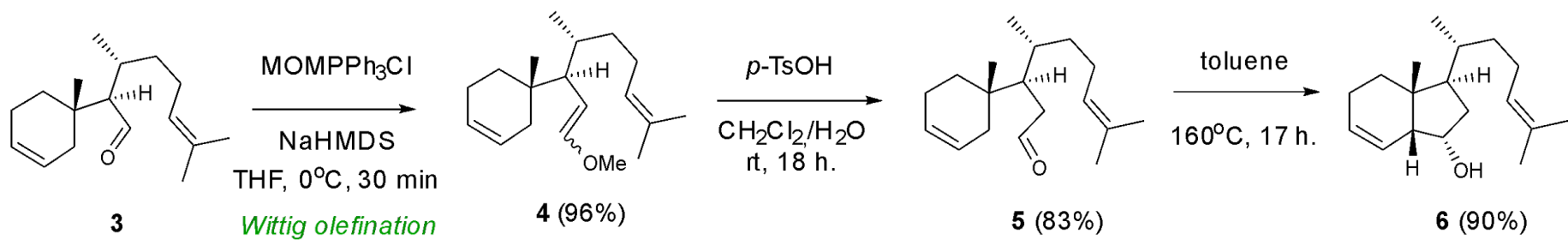


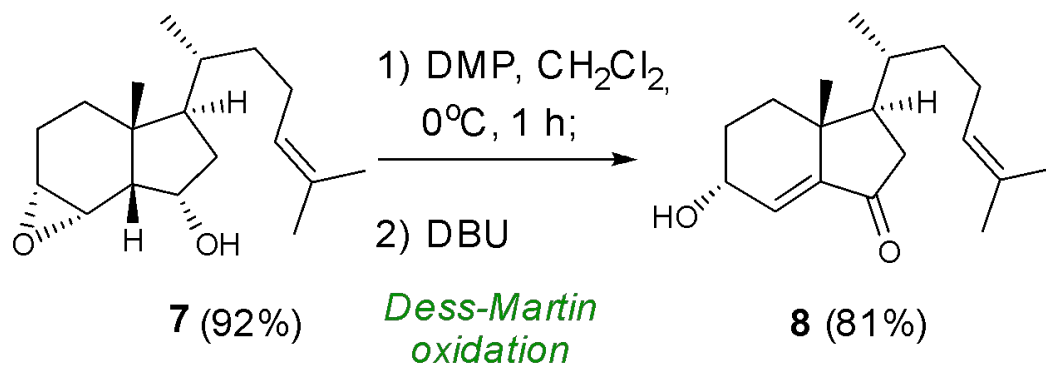
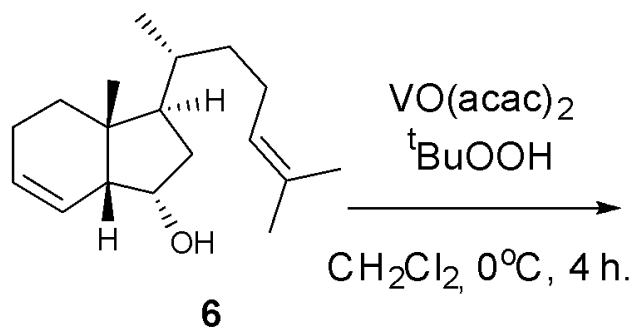


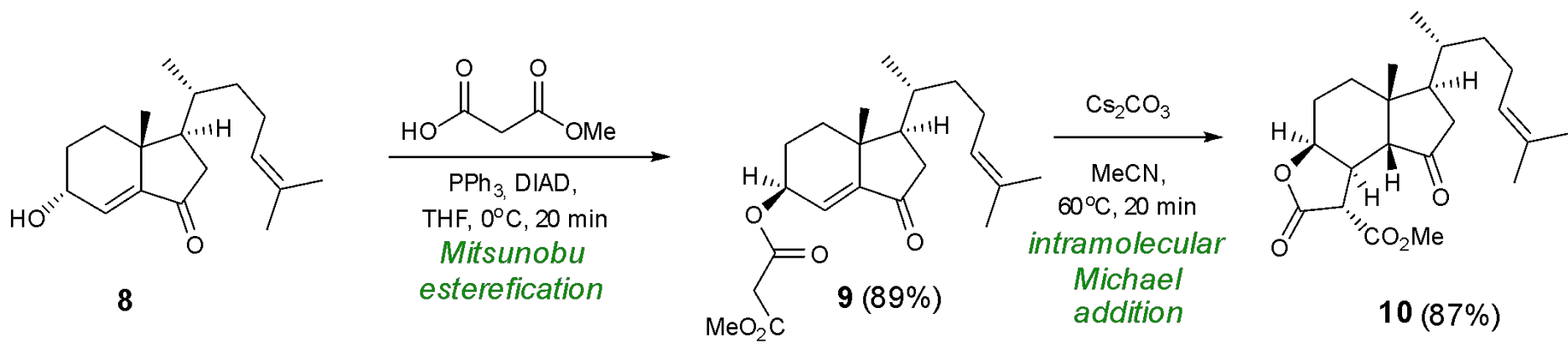




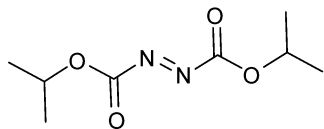






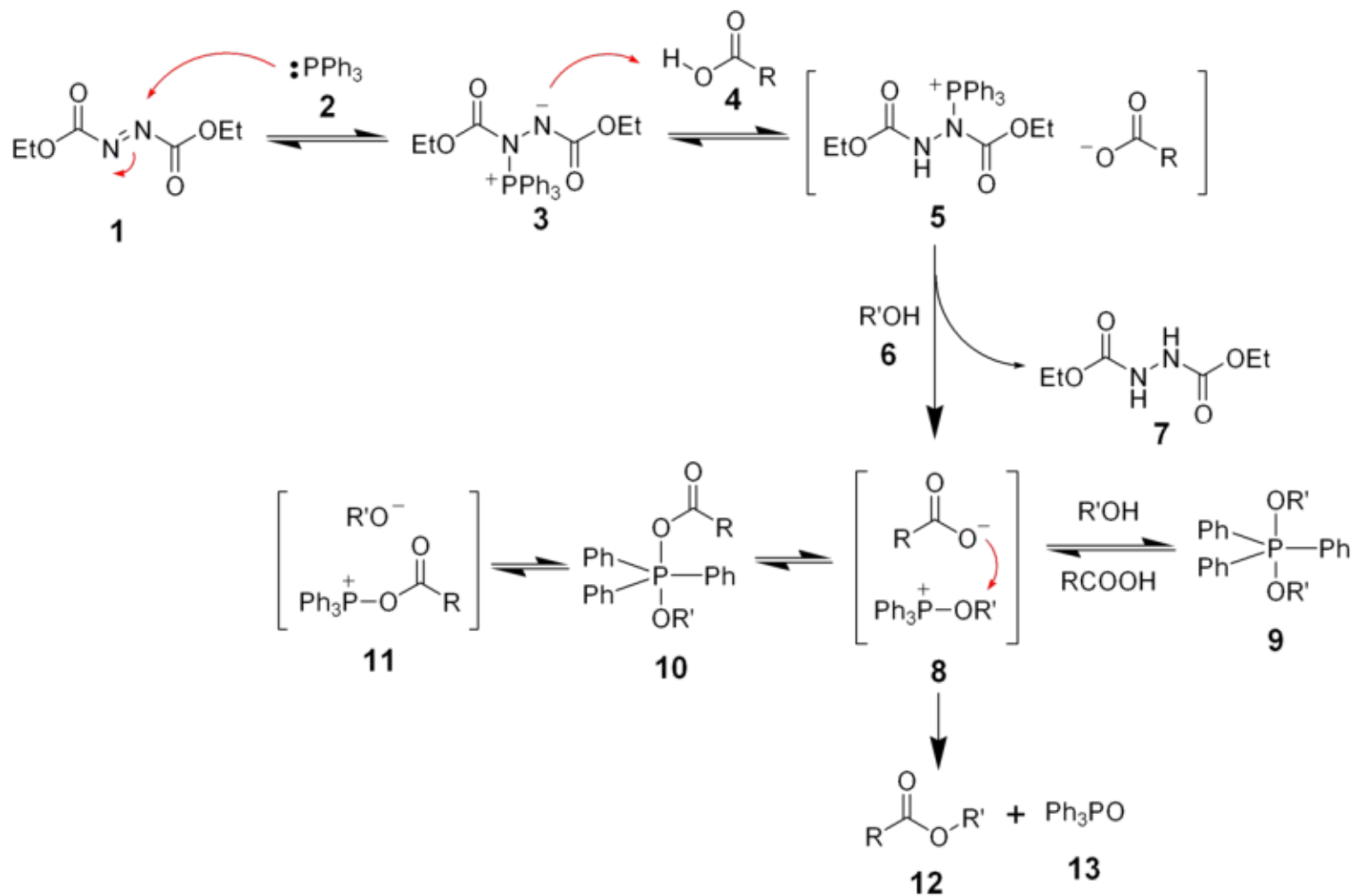


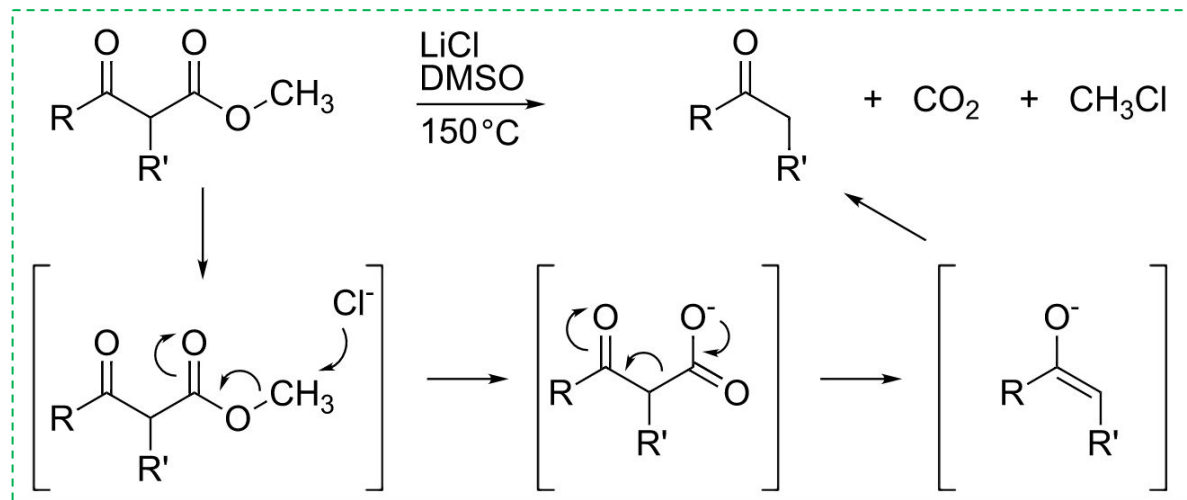
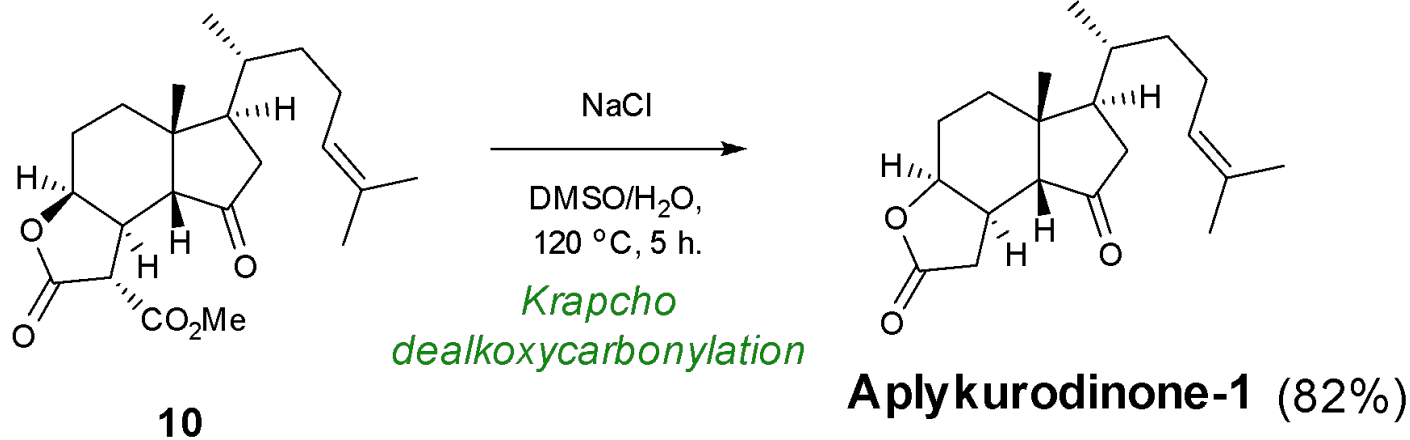
**DIAD**



Diisopropyl azodicarboxylate

# MITSUBUNBU ESTERIFICATION





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

**СПАСИБО ЗА ВНИМАНИЕ!**