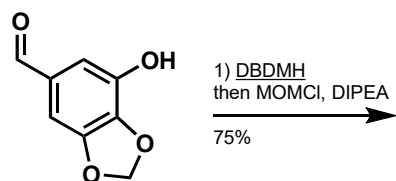
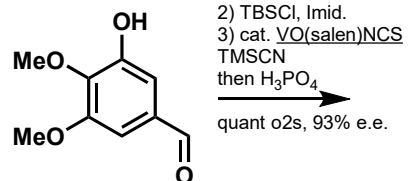


Asymmetric total synthesis of Kadsulignan E

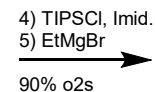
Denksport Lukas Holz 23.06.2021



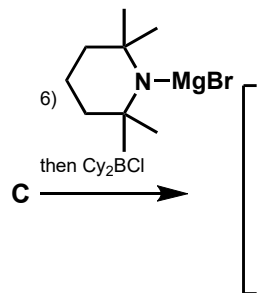
A



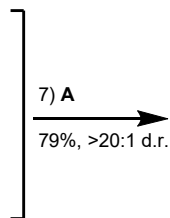
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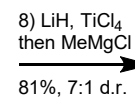
C



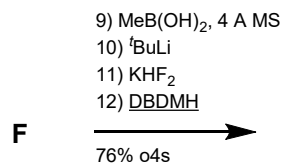
D



E

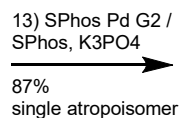


F



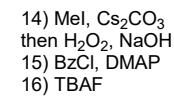
F

G

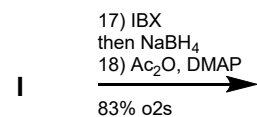


H

C₃₃H₄₉BO₁₀Si

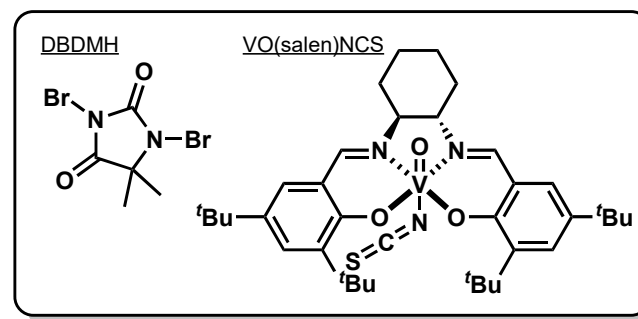
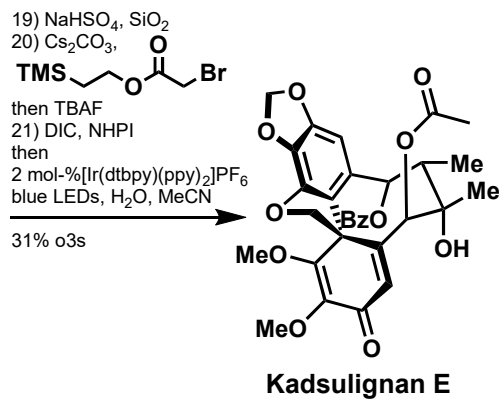


I



I

J

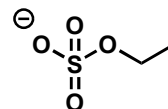
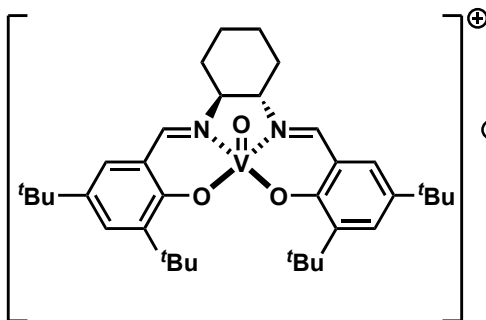


Synthesis of organometallic compounds and Ligands

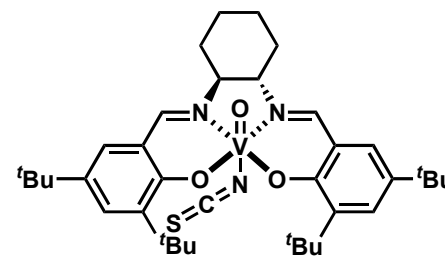
VO(salen)NCS

(VO)SO₄

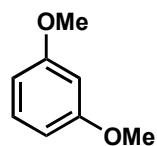
22) H₂salen, air
EtOH/THF, reflux
51%



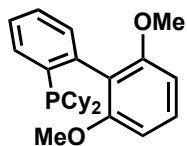
23) KSCN
EtOH, r.t.
92%



SPhos



24) i) TMPLi
then chlorobenzene
Et₂O/THF, -45°C, 24 h
ii) ClPCy₂
-78°C, 3 h
65%



SPhos Pd G2

Pd(OAc)₂

25) i) 2-aminobiphenyl
PhMe, 60°C, 1 h
ii) LiCl
acetone, 24 h
then SPhos
24 h
76%

