

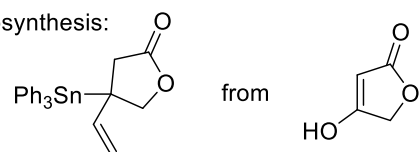
Baudoin 2024

Diterpenoid  
trans- 5/7 ring  
5 stereogenic centers

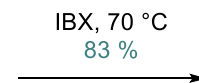
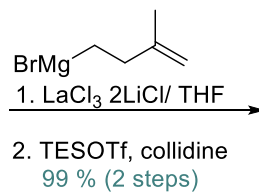
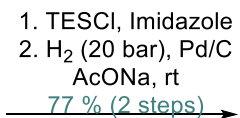
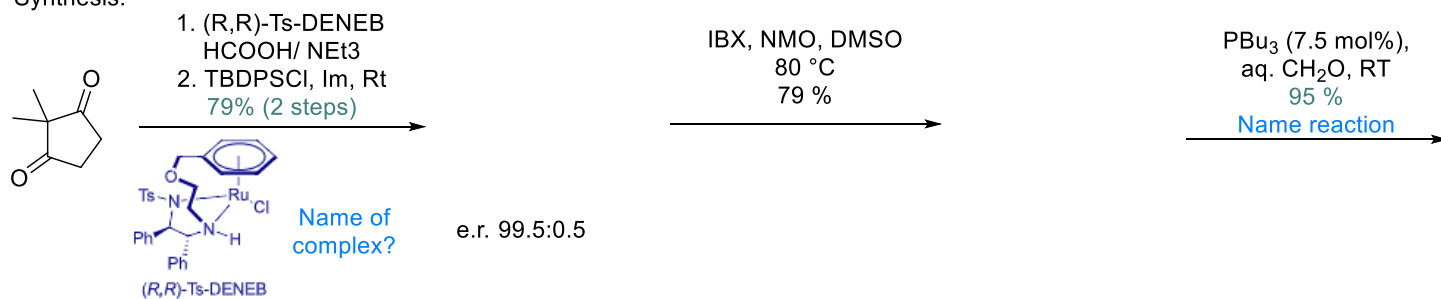
(+)-randainin D

JACS, 2024, 146, 16, 11486–11492

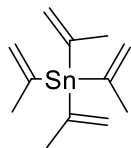
Retrosynthesis:



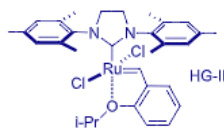
Synthesis:



d.r. 9.7:1



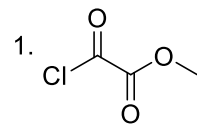
1. nBuLi, -78 °C, 2h  
then LaCl<sub>3</sub> 2LiCl/ THF, 14  
2. DMP  
87 %



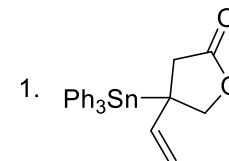
CPME, 110 °C  
79 %

Mn(dpm)<sub>3</sub>, EtOH  
PhSiH<sub>3</sub>, O<sub>2</sub>, RT  
90 %

Name reaction



TEA, DMAP, -15 °C to RT  
91 %



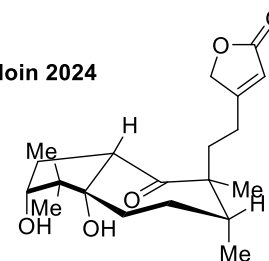
5 equiv.

fac-Ir(ppy)<sub>3</sub>, 456 nm  
2. DBU, rt  
26 %

aq. HF, MeCN

(+)-randainin D

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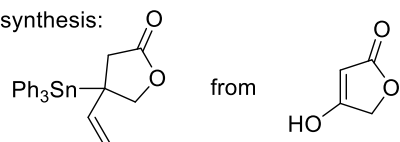


Diterpenoid  
trans- 5/7 ring  
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Retrosynthesis:



Synthesis:

