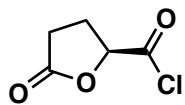


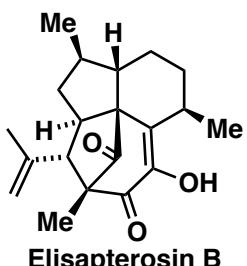
Total Synthesis of Elisapterosin B

N. Waizumi, A. R. Stankovic, V. H. Rawal, *J. Am. Chem. Soc.* 2003, 125, 13022–13023.

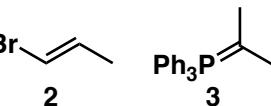


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1-7

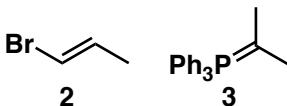
A



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8-17



- 8) AgNO₃, NBS, *then* TsNHNH₂, AcONa
9) 2, *t*-BuLi, *then* ZnCl₂, Pd(Cl)₂dppf
10) DIBAL-H
11) 3
12) NaSEt
13) O₂, cat. Salcomine
14) toluene, 80 °C
15) RhCl(PPh₃)₃, H₂
16) LiI, lutidine, 80 °C
17) CAM, *then* NEt₃, py



Step 1: Please name the reaction.

Step 5: Please name the reactants.

Step 13: What is the structure of Salcomine?

Step 15: Please name the catalyst.