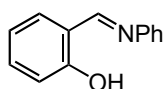


1) PPh_3 (1.05 eq), DCM, 60 °C, 24 h
 2) AcCl (1 eq), NEt_3 (1 eq)
 DCM, 0 °C, 25 min, 26% (2 steps)

X

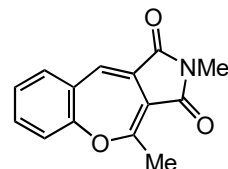
$\text{C}_7\text{H}_7\text{NO}_2$

^{13}C NMR (75 MHz, CDCl_3)
 δ 207.30, 173.26, 169.37, 93.82,
 83.27, 32.65, 25.24.



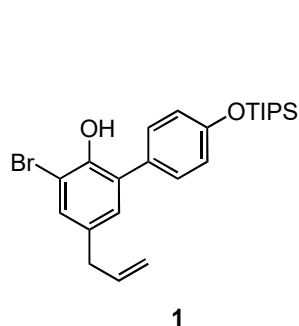
X (2.3 eq), $\text{P}(4\text{-ClPh})_3$ (5 mol%), AcOH (1 eq)

DCM, 25 °C, 20 h
 97%

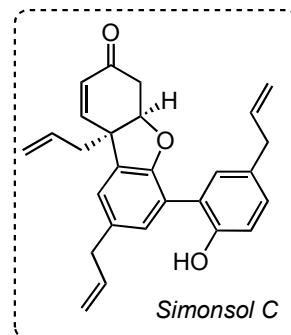
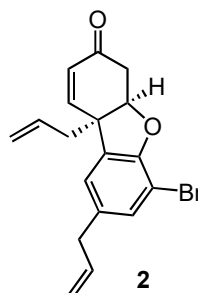


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Propose reasonable arrow-pushing mechanisms.



1. ethyl vinyl ether (2.6 eq.)
 Br_2 (2.0 eq.), $i\text{-Pr}_2\text{NEt}$ (4.0 eq.)
 CH_2Cl_2 , 2.5 h, 96%
 2. CsF (3.0 eq.), Na_2SO_4 (30 eq.)
 DMF , 130 °C, 1 h, 94%
 3. 3 M aq. HCl , 1,4-dioxane
 101 °C, 5 h
 4. $\text{Ph}_3\text{P}^+\text{MeBr}^-$ (3.0 eq.)
 KHMDs (2.6 eq.)
 THF , 40 °C, 1.5 h, 60% (2 steps)



Houk, K. N.; Denton, R. M. *et al.*
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