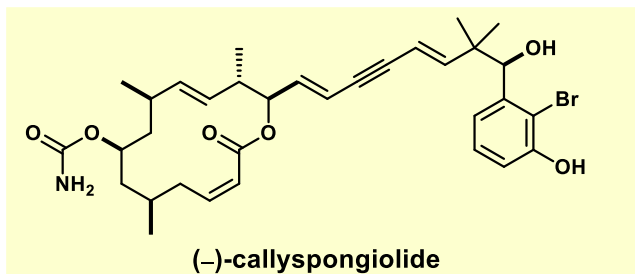
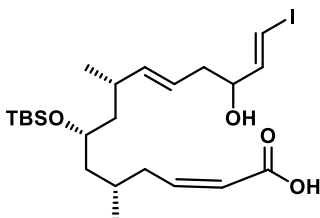


Reference: P. Harran, *JACS*, **2018**, *140*, 1280.  
 Schreiber, *JACS*, **1980**, *102*, 6165.  
 Proksch, *Org. Lett.*, **2014**, *16*, 266.



- cytotoxic macrolide isolated from *Callyspongia* sp. in 2014 by Proksch et al.
- examined in Jurkat and Ramos B lymphocytes and showed potent cytotoxicity, with an  $IC_{50}$  of 70 and 60 nM, respectively, after 48 hours
- activity is caspase independent, implying a nonapoptotic mechanism for cell death
- reported synthesis:
  - Ye, *JACS*, **2016**, *138*, 6948
  - Ghosh, *ACS Omega*, **2018**, *3*, 16563

Key intermediate:



Precedence:

