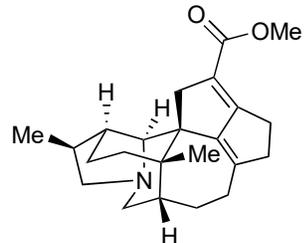


(+)-Caldaphnidine J

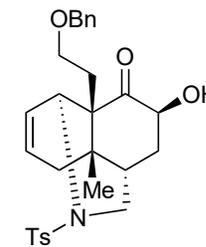


⊙ Yuzurimine type of alkaloids

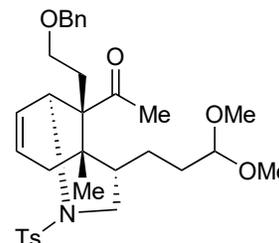
Guo, L.-D.; Zhang, Y.; Hu, J.; Ning, C.; Fu, H.; Chen, Y.; Xu, J. *Nat Commun* **2020**, *11* (1), 3538. <https://doi.org/10.1038/s41467-020-17350-x>.



Genus Daphniphyllum



4 Steps

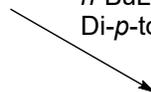


PhNTf₂, KHMDS
then Pyridine

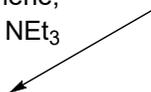


2

n-BuLi,
Di-*p*-tolyl disulfite, MeI

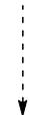


Bromoethene,
Pd(PPh₃)₂Cl₂, CuI, NEt₃



3

TFA **Mechanism**



4

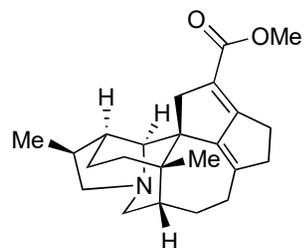
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HCOOH **Mechanism**



6

(+)-Caldaphnidine J

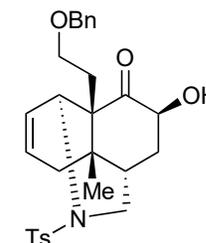


• Yuzurimine type of alkaloids

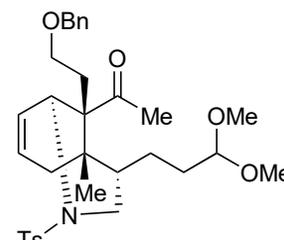
Guo, L.-D.; Zhang, Y.; Hu, J.; Ning, C.; Fu, H.; Chen, Y.; Xu, J. *Nat Commun* **2020**, *11* (1), 3538. <https://doi.org/10.1038/s41467-020-17350-x>.



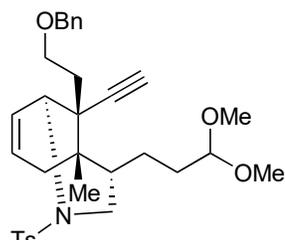
Genus *Daphniphyllum*



4 Steps



PhNTf₂, KHMDS
then Pyridine 70 °C



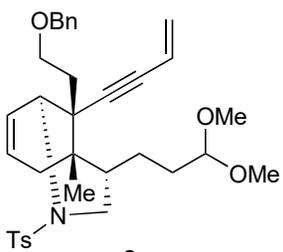
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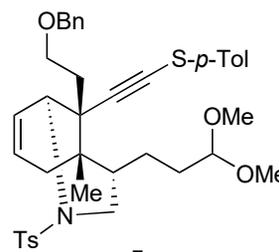
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n-BuLi,
Di-*p*-tolyl disulfite, MeI

Bromoethene,
Pd(PPh₃)₂Cl₂, CuI, NEt₃



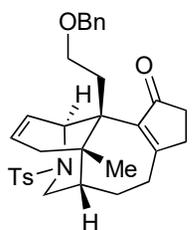
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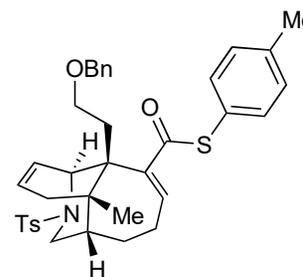
5

TFA

HCOOH



4



6

