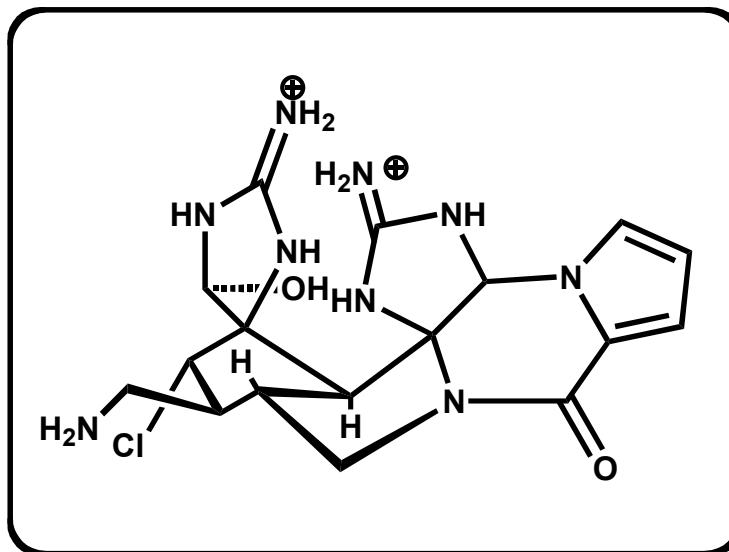


Total synthesis of Palau'amine



(±) Palau'amine

Phil S. Baran and co-workers

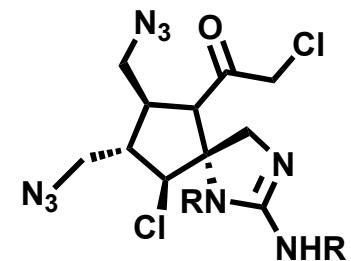
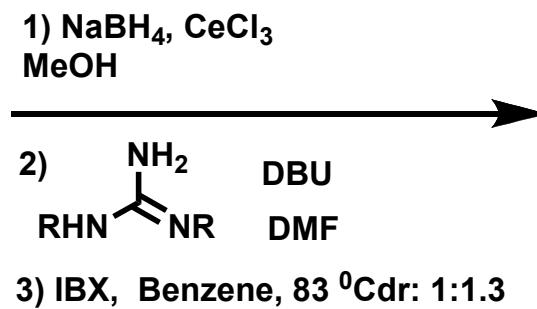
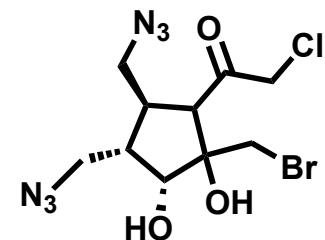
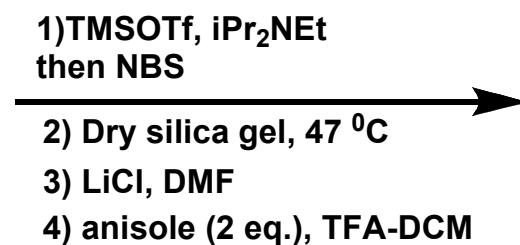
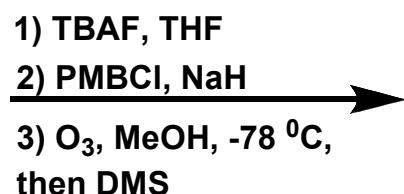
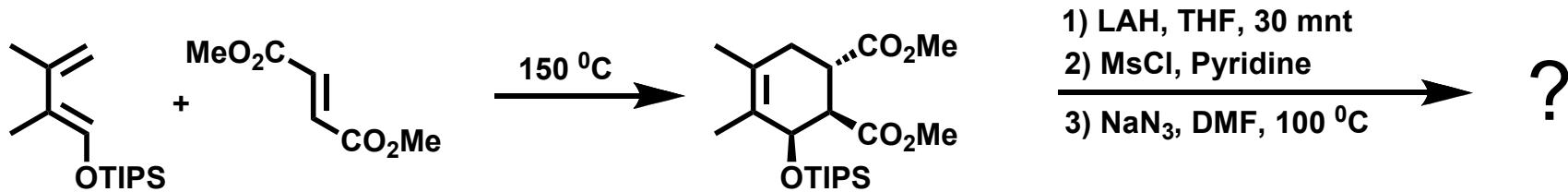
References..

Highlighted in

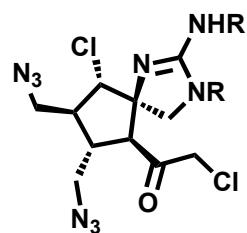


Angew. Chem. Int. Ed. 2010, 49, 2972 – 2974

Angew. Chem. Int. Ed. 2010, 49, 1095 – 1098

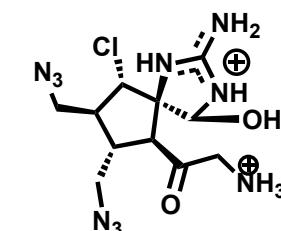
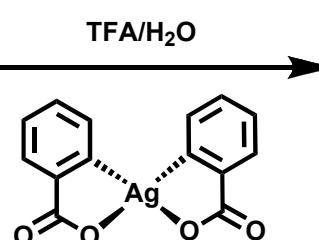


R = Boc



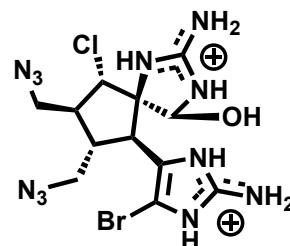
1) $\text{NaN}(\text{CHO})_2$, TBAI (cat.)
2) TFA-DCM, RT 2 h

?



$\text{R} = \text{Boc}$

1) NH_2CN (40 eq.), brine, 70°C
2) TFAA/TFA (1:1)
then Br_2 (2 eq.), then TFA
 38°C



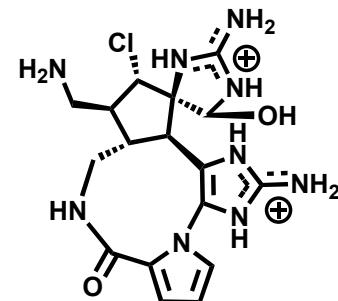
1) $\text{tBuO}_2\text{C}-\text{CH}(\text{NH}_2)-\text{CH}_2-\text{OMe}$
 AcOH (3 eq. each) 38°C
THF

2) TFA-DCM - 2 MeOH

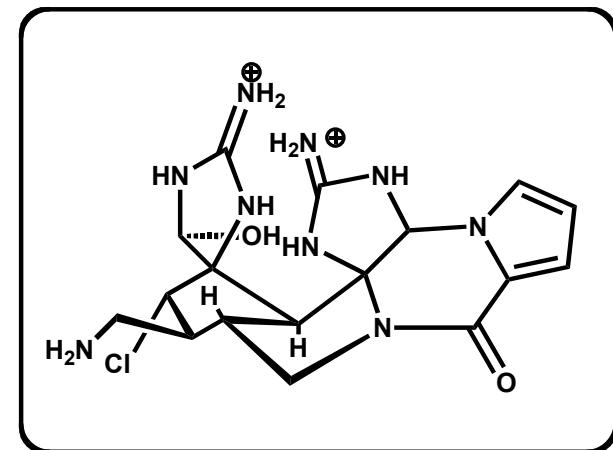
?



RT
1) H_2 (bubbling), $\text{Pd}(\text{OAc})_2$
2) EDC, HOBT (2.8 eq each)
DMF



TFA, 70°C , 38 h



(\pm) Palau'amine