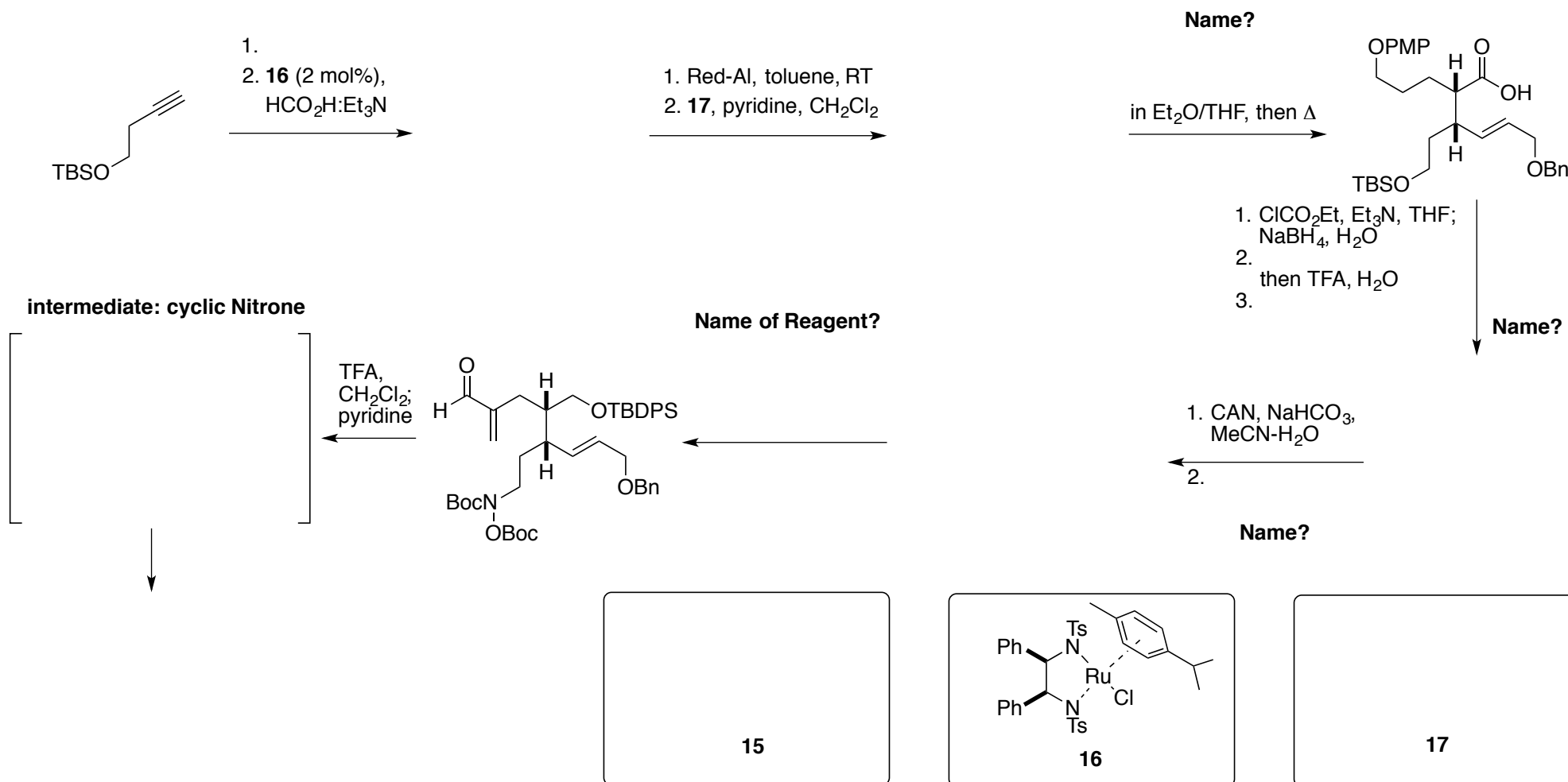


# E11: Formal Synthesis of Sarain A<sup>[1,2]</sup>

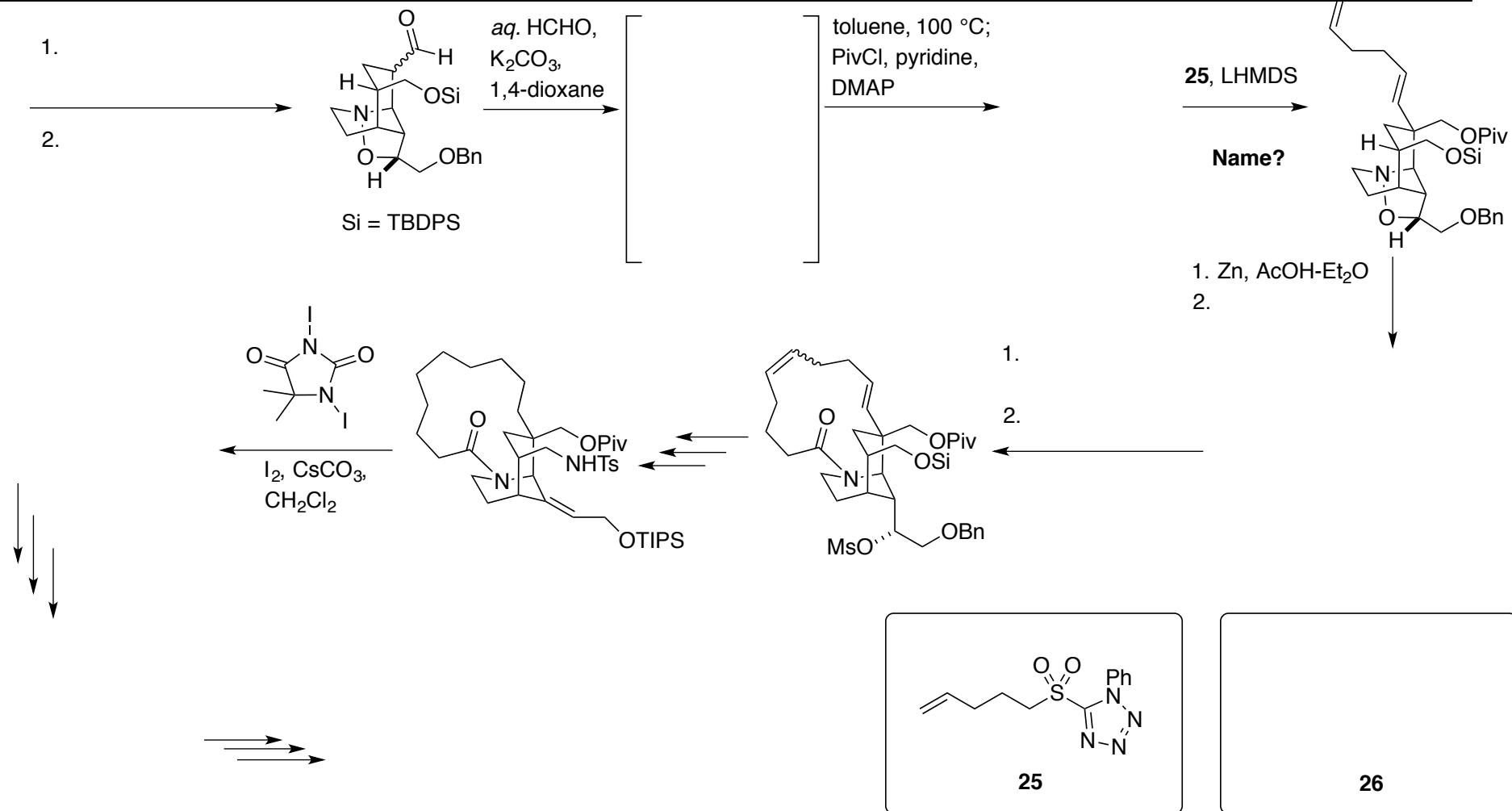


2-azabicyclo[3.3.1]nonane

<sup>[1]</sup> T. Higo, T. Ukegawa, S. Yokoshima, T. Fukuyama, *Angew. Chem. Int. Ed.* **2015**, *54*, 7367.

<sup>[2]</sup> M. H. Becker, P. Chua, R. Downham, C. J. Douglas, N. K. Garg, S. Hierbert, S. Jaroch, R. T. Matsuoka, J. A. Middleton, F. W. Ng, L. E. Overman, *J. Am. Chem. Soc.* **2007**, *129*, 11987.

# E11: Formal Synthesis of Sarain A<sup>[1,2]</sup>



Overman's intermediate

(-)-Sarain A

<sup>[1]</sup> T. Higo, T. Ukegawa, S. Yokoshima, T. Fukuyama, *Angew. Chem. Int. Ed.* **2015**, *54*, 7367.

<sup>[2]</sup> M. H. Becker, P. Chua, R. Downham, C. J. Douglas, N. K. Garg, S. Hierbert, S. Jaroch, R. T. Matsuoka, J. A. Middleton, F. W. Ng, L. E. Overman, *J. Am. Chem. Soc.* **2007**, *129*, 11987.