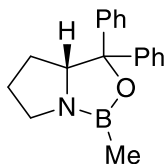
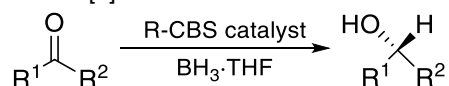


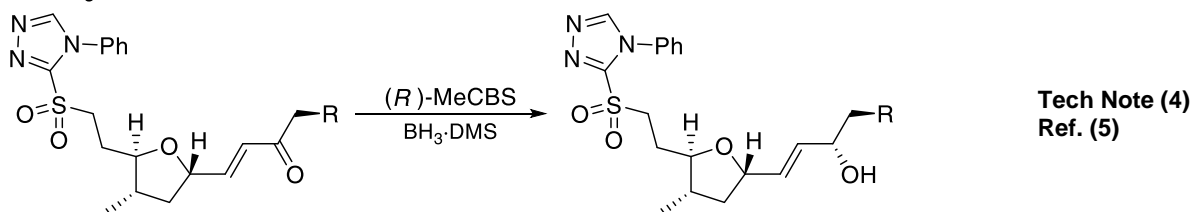
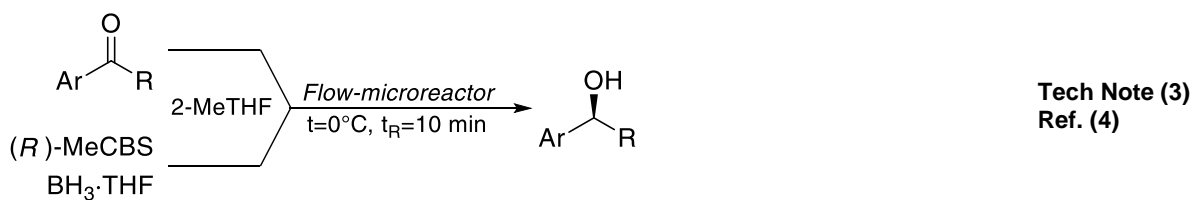
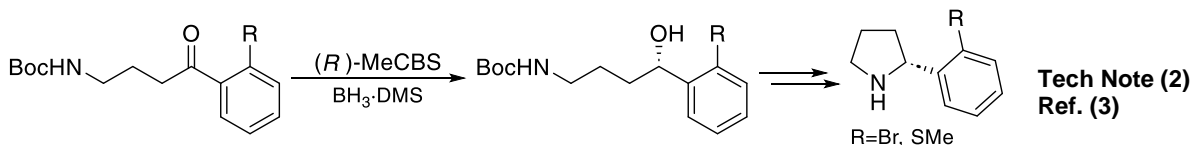
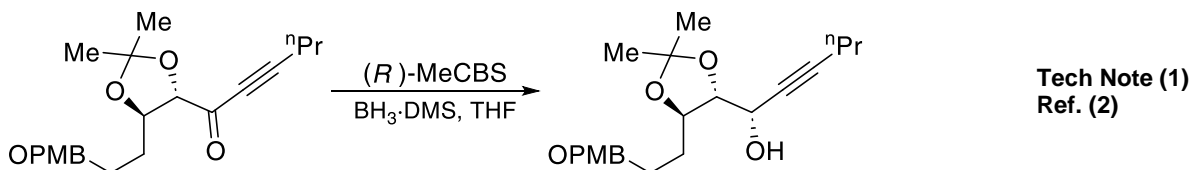
Catalog # 05-1000 CALLERY™ (*R*)-Methyl oxazaborolidine, 1M in toluene, (*R*)-MeCBS

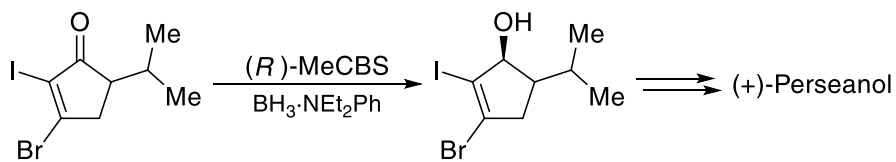
(±)-*R*-CBS (R=H, alkyl) is an oxazaborolidine catalyst generally used in Corey-Bakshi-Shibata (CBS) reduction process, where an achiral ketone is enantioselectively reduced to produce the corresponding chiral, non-racemic alcohol [1]:



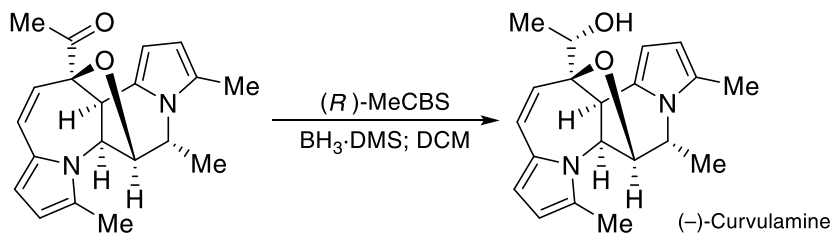
Technical Notes:

1. Used in diastereoselective reduction of ynones.
2. Used in asymmetric total synthesis of (+)-didemniserinolipid B via Achmatowicz rearrangement/bicyclopentalization.
3. Enantioselective reductant used for the synthesis of 2-aryl pyrrolidine analogues.
4. Effective reagent for enantioselective CBS-reduction of aryl and heteroaryl in flow-microreactor systems.
5. Used in the total synthesis of belizentrin methyl ester.
6. Used in the total synthesis of the isoryanodane diterpene (+)-Perseanol.
7. Used in the total synthesis of (-)-Curvulamine.
8. Used in the total synthesis of (+)- and (-)-ar-macrocarpene.

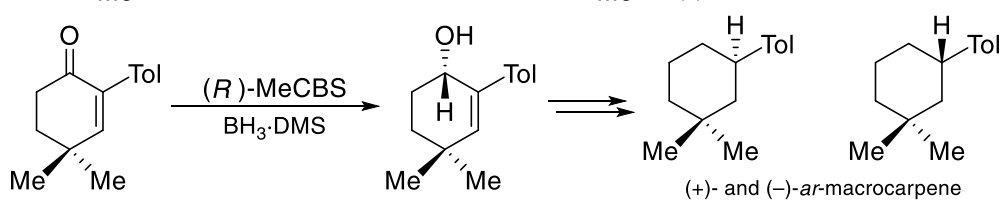




Tech Note (5)
Ref. (6)



Tech Note (6)
Ref. (7)



Tech Note (7)
Ref. (8)

References:

1. [J. Am. Chem. Soc. 1987, 109, 5551.](#)
2. [Org. Lett., 2012, 14, 516.](#)
3. [J. Med. Chem. 2016, 59, 2596.](#)
4. [Org. Biomol. Chem., 2016, 14, 4304.](#)
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6. [Nature 2019, 573, 563.](#)
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8. [Tetrahedron 2020, 76, 130918.](#)