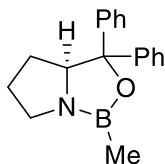
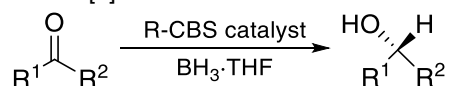


Catalog # 05-1001 CALLERY™ (S)-Methyl oxazaborolidine, 1M in toluene, (S)-MeCBS

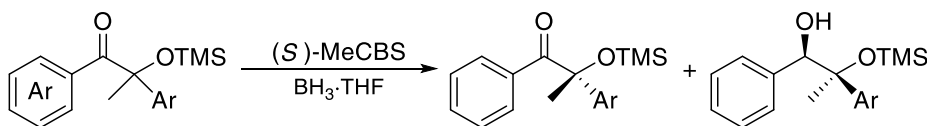
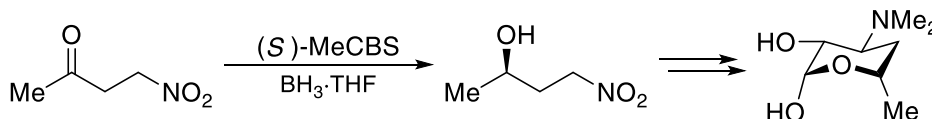
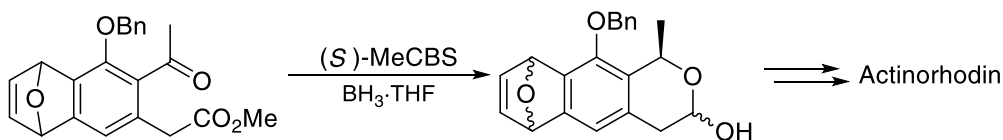
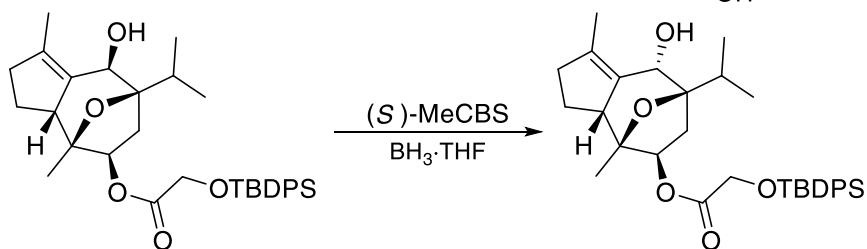


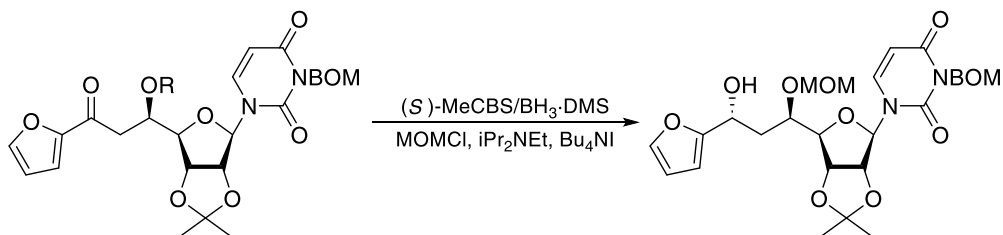
(±)-R-CBS (R=H, alkyl) is a oxazaborolidine catalyst generally used in Corey-Bakshi-Shibata (CBS) reduction process, where an achiral ketone is enantioselectively reduced to produce the corresponding chiral, non-racemic alcohol [1]:



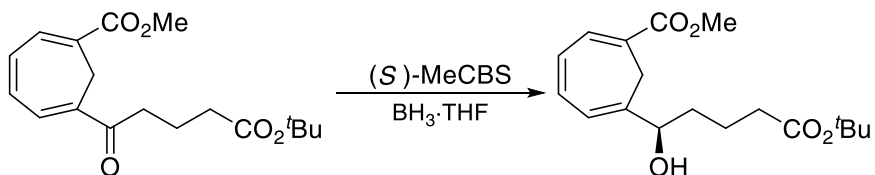
Technical Notes:

1. Used in kinetic resolution process of α -silyloxy ketones via CBS reduction.
2. Used in CBS-reduction of 4-nitro-2-butanone with subsequent generation of 3-amino sugars.
3. Asymmetric reduction of ketone with subsequent generation of Actinorhodin.
4. Used in kinetic resolution process of ketones via CBS reduction during the enantioselective total synthesis of (-)-Englerin A and B.
5. Used in total synthesis of Tunicamycin V.
6. Used in synthesis of optically active hydroxyalkyl cycloheptatrienes.
7. Used for the enantioselective reduction of cyclobutanones.

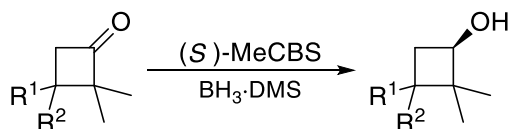
Tech Note (1)
Ref. (2)Tech Note (2)
Ref. (3)Tech Note (3)
Ref. (4)Tech Note (4)
Ref. (5)



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. [J. Org. Chem. 2010, 75, 3317.](#)
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