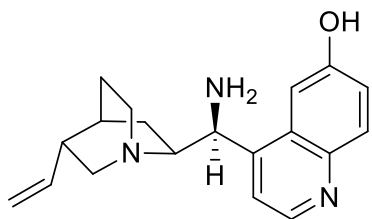


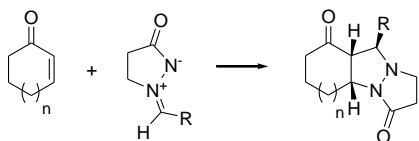
Catalog # 07-1712 (8 α , 9S)-9-Amino-cinchonan-6'-ol, min. 90%



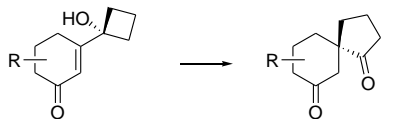
These amino-cinchonnane compounds behave as pseudoenantiomers, generally granting access to both enantiomers of a given transformation.

Technical notes:

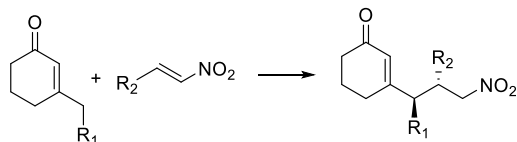
- 1,3-dipolar cycloaddition of cyclic enones.
- Activation of α,β -unsaturated carbonyl compounds:
 - a) vinylogous α -ketol rearrangement.
 - b) Direct asymmetric vinylogous Michael addition of cyclic enones to nitroalkenes.
- Michael addition
 - a) α -nitroacetate to α,β -unsaturated ketones.
 - b) Diastereodivergent Sulfa Michael addition to α -branched enones.
- α -benzyloxylation of α -branched aldehydes.
- [4+2]-cycloadditions of β -substituted α,β -unsaturated cyclohexanones with polyconjugated malonitriles.
- Vinylogous organocascade catalysis with control of remote stereochemistry in the synthesis of spirocyclic oxindoles.



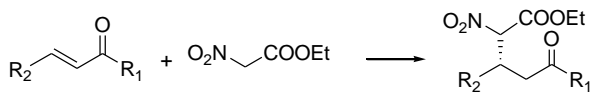
Tech. Note (1)
Ref. (1)



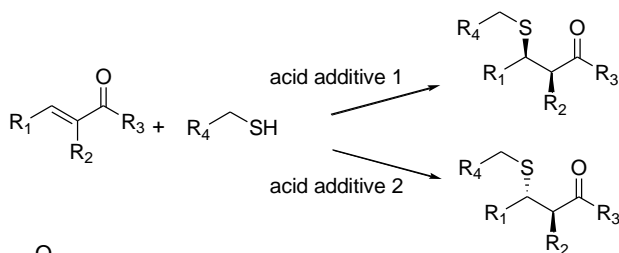
Tech. Note (2a)
Ref. (2)



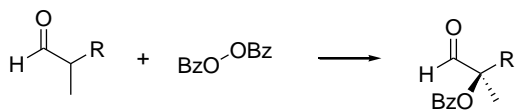
Tech. Note (2b)
Ref. (3)



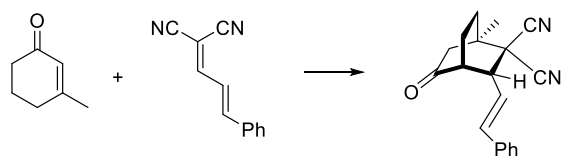
Tech. Note (3a)
Ref. (4,5)



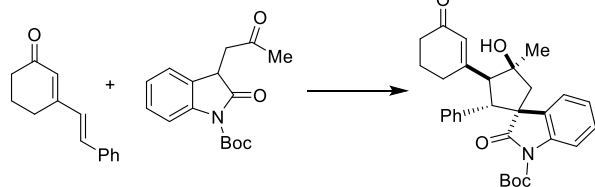
Tech. Note (3b)
Ref. (6)



Tech. Note (4)
Ref. (7)



Tech. Note (5)
Ref. (8)



Tech. Note (6)
Ref. (9)

References:

1. *Angew. Chem. Int. Ed.*, **2007**, 46, 7667.
2. *J. Am. Chem. Soc.*, **2009**, 131, 14626.
3. *Proc. Nat. Acad. Sci. USA*, **2010**, 107, 20642.
4. *Org. Lett.*, **2010**, 12, 2278.
5. *Bull. Korean Chem. Soc.*, **2011**, 32, 291.
6. *J. Am. Chem. Soc.*, 2011, 133, 17934.
7. *Tetrahedron*, **2012**, 68, 7568.
8. *J. Am. Chem. Soc.*, **2012**, 134, 19942.
9. *Angew. Chem. Int. Ed.*, **2013**, 52, 5360.