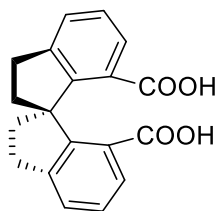
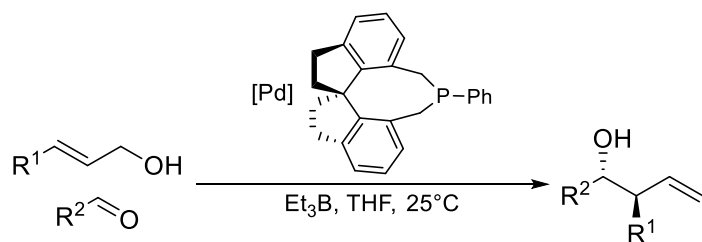


Catalog # 08-1266 (R)-2,2',3,3'-Tetrahydro-1,1'-spirobi[1H-indene]-7,7'-dicarboxylic Acid

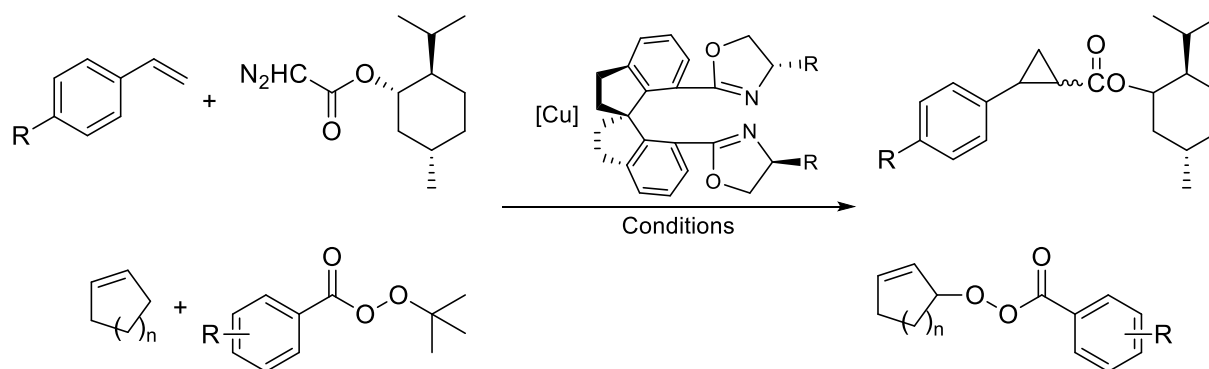


Technical Notes

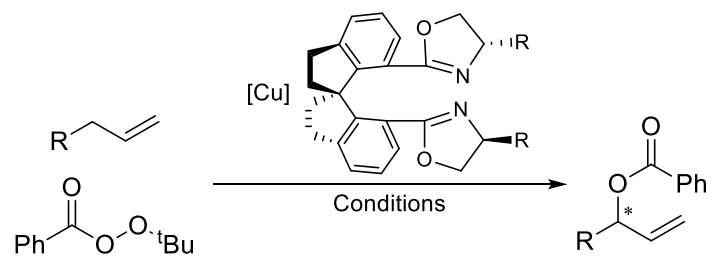
1. Ligand component used in Pd-catalyzed asymmetric allylation of aldehydes with allylic alcohols.
2. Ligand component used in Cu-catalyzed asymmetric cyclopropanation and allylic oxidation.
3. Ligand component used in Cu-catalyzed enantioselective allylic oxidation of acyclic olefins.
4. Ligand component for Ir-catalyzed asymmetric hydrogenation of β -acylamino nitroolefins.
5. Used in the mild catalytic synthesis of 2-oxazolines via oxetane ring-opening.



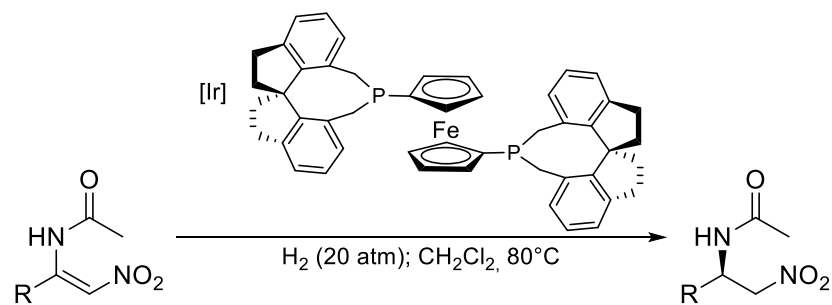
Tech. Note (1); Ref. (1)



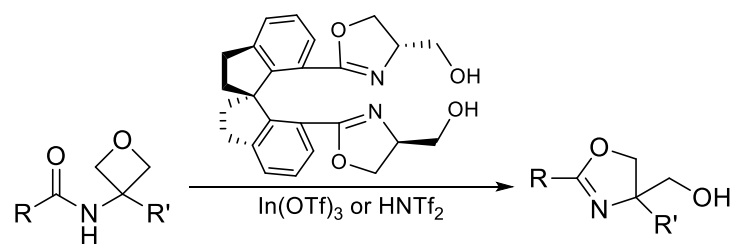
Tech. Note (2); Ref. (2)



Tech. Note (3); Ref. (3)



Tech. Note (4); Ref. (4)



Tech. Note (5); Ref. (5)

References:

1. *Org. Lett.*, **2005**, 7, 2333.
2. *Tetrahedron Asymmetry* **2006**, 17, 634.
3. *Tetrahedron Letters* **2013**, 54, 2665.
4. *Chem. Commun.*, **2014**, 50, 12870.
5. *Chem. Sci.*, **2019**, 10, 9586.