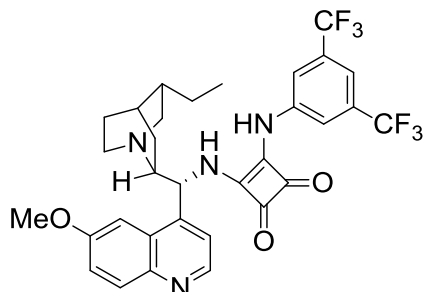
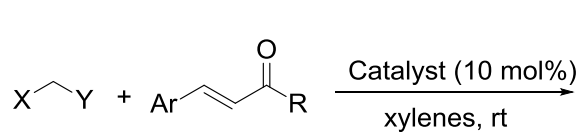


Catalog # 07-7028 3-[[3,5-Bis(trifluoromethyl)phenyl]amino]-4-[[[(9R)-10,11-dihydro-6'-methoxycinchonan-9-yl]amino]-3-cyclobutene-1,2-dione

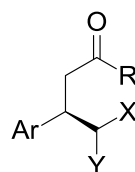


Technical Notes:

1. **Conjugate Addition:** Conjugate addition reactions of a wide range of nucleophilic enol species with enones, catalyzed by a cinchona alkaloid derived thiourea organocatalyst, have been developed with attending good yields and high enantioselectivities under a mild reaction condition.



X = Y = COOR<sup>1</sup>, COOR<sup>2</sup>, CN  
X = COOR<sup>1</sup>, Y = COOR<sup>3</sup>, NO<sub>2</sub>  
R = aryl and alkyl



up to 99% yield  
up to 98% e.e.

**Tech Note (1)**  
**Ref. (1)**

References:

1. *J. Am. Chem. Soc.*, **2006**, 128, 12652-12653.