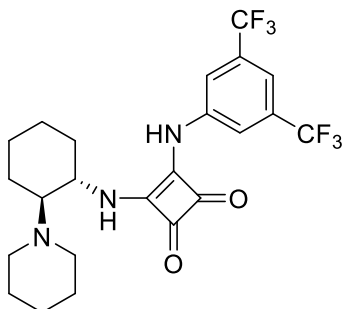
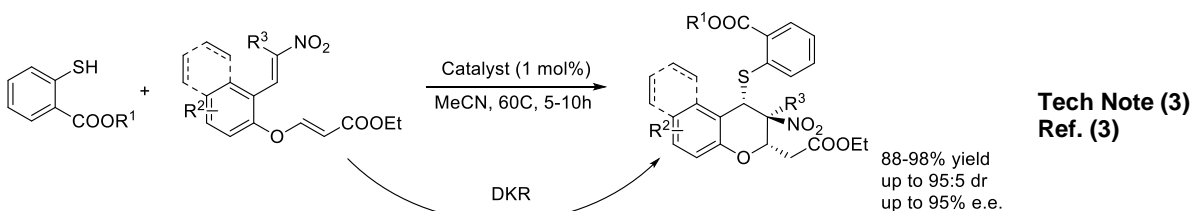
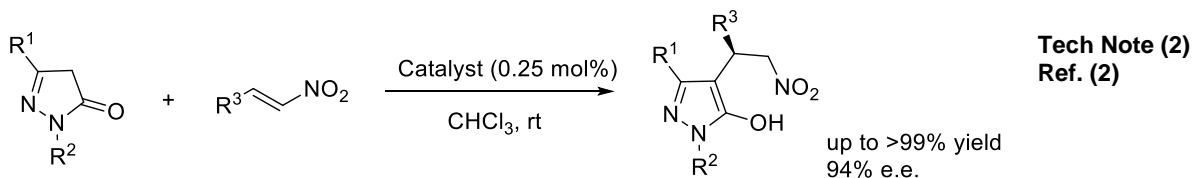
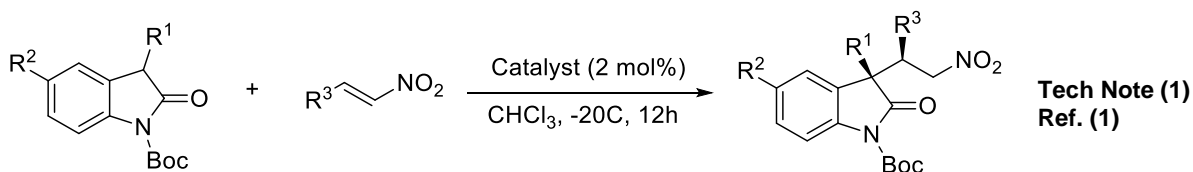


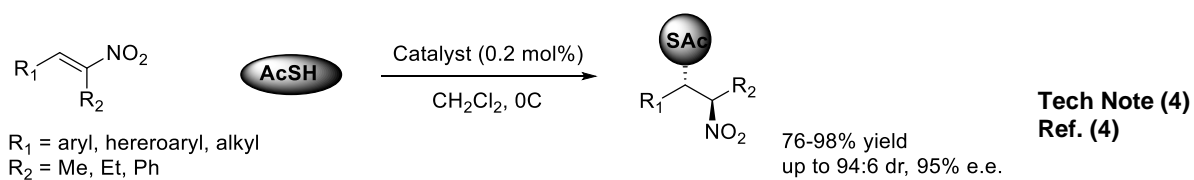
Catalog # 07-1423 3-[[3,5-Bis(trifluoromethyl)phenyl]amino]-4-[[[(1S,2S)-2-(1-piperidinyl)cyclohexyl]amino]-3-cyclobutene-1,2-dione, 95%, (99% ee)



Technical Notes:

1. An efficient diastereo- and enantioselective Michael addition of 3-substituted oxindoles onto nitroalkenes catalyzed by a bifunctional chiral squaramide catalyst has been developed.
2. An efficient chiral squaramide-catalysed enantioselective Michael addition of pyrazolin-5-ones to nitroalkenes has been developed.
3. An efficient asymmetric cascade sulfa-Michael/Michael addition reaction catalyzed by a chiral bifunctional squaramide-tertiary amine catalyst has been developed.
4. A highly enantio- and diastereoselective sulfa-Michael addition of thioacetic acid to α,β -disubstituted nitroalkenes catalysed by a chiral squaramide organocatalyst has been described.





References:

1. *Tetrahedron: Asymmetry*, **2012**, 23, 972-980.
2. *Org. Biomol. Chem.*, **2013**, 11, 6215-6223.
3. *Org. Lett.*, **2013**, 15, 1190-1193.
4. *Org. Biomol. Chem.*, **2012**, 10, 6876-6884.