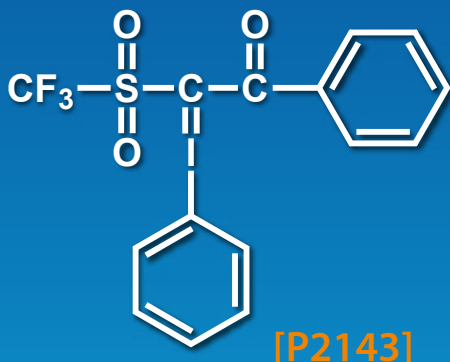


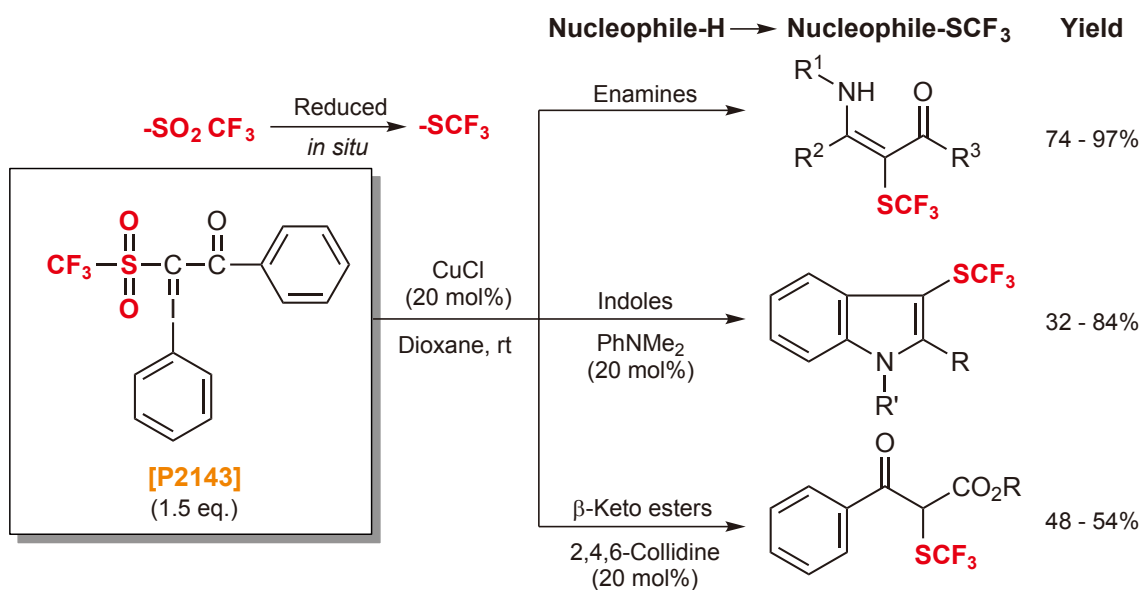
Hypervalent Iodine Compound for Trifluoromethylthiolation Shibata Reagent II



Advantage

A reactive trifluoromethylthio ($\text{CF}_3\text{S}-$) species is generated from the trifluoromethanesulfonyl group by carbene-mediated *in situ* reduction catalyzed by a copper (I) salt in the presence of an amine, and reacts well with various nucleophiles to afford the CF_3S -substituted products.

Application



Y.-D. Yang, A. Azuma, E. Tokunaga, M. Yamasaki, M. Shiro, N. Shibata, *J. Am. Chem. Soc.* **2013**, *135*, 8782.

Shibata Reagent II

1g / 5g [P2143]

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trifluoromethylthiolation



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