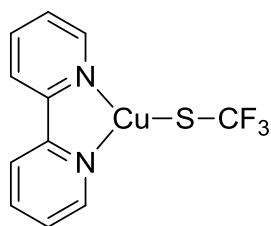
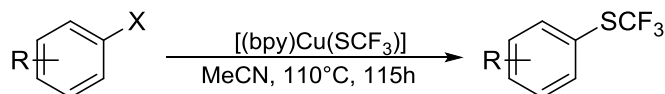


Catalog # 29-5515 Trifluoromethylthiolato(2,2-bipyridine)copper(I)



Technical Notes:

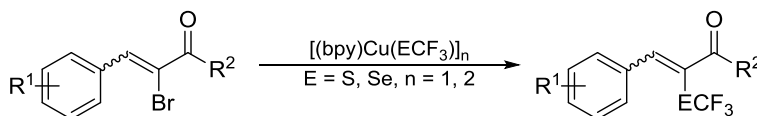
1. Catalyst for nucleophilic trifluoromethylthiolation of aryl halides.
2. Catalyst for synthesis of  $\alpha$ -trifluoromethylthio- and seleno- $\alpha,\beta$ -unsaturated carbonyl compounds.
3. Catalyst for trifluoromethylthiolation of vinyl bromides.
4. Catalyst for trifluoromethylthiolation of bromopyridines.



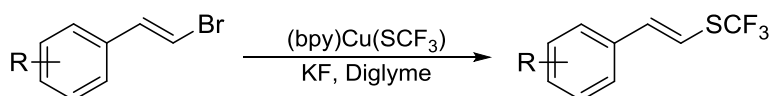
X = Br, I

R = H, Me, Ph, Cl, CO<sub>2</sub>Me, CN, NO<sub>2</sub>, OMe

**Tech. Note (1)**  
**Ref. (1, 2)**

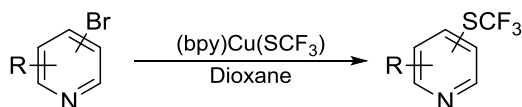


**Tech. Note (2)**  
**Ref. (3)**



R = OMe, NMe, NO<sub>2</sub>, CF<sub>3</sub>, F, Cl, *et al.*

**Tech. Note (3)**  
**Ref. (4)**



**Tech. Note (4)**  
**Ref. (4)**

References:

1. *Angew. Chem. Int. Ed.* **2013**, *52*, 1548.
2. *Tetrahedron*, **2013**, *69*, 6046.
3. *Tetrahedron*, **2014**, *70*, 672.
4. *J. Org. Chem.* **2015**, *80*, 2912.
5. *Adv. Synth. Catal.* **2016**, *358*, 386.