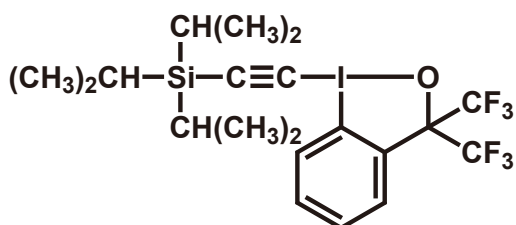
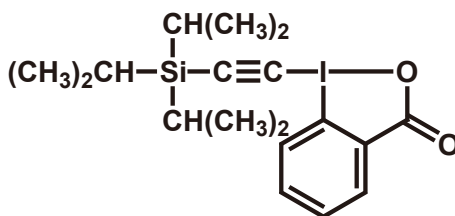


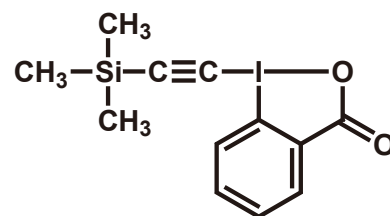
Hypervalent Iodine Reagents for Ethynylation



[T3590]



[T3039]



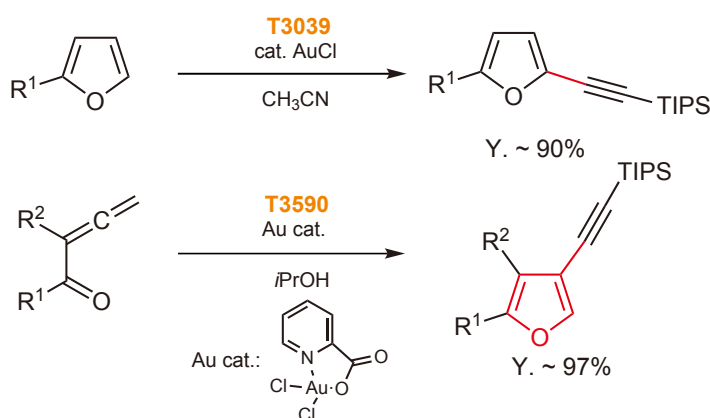
[T3272]

Advantages

- Effective in for Regioselective Ethynylation with Metal Catalysts
- Effective in the Construction of Heterocycles and 1,3-Diynes
- Applicable to Heavy-metal-free Ethynylation

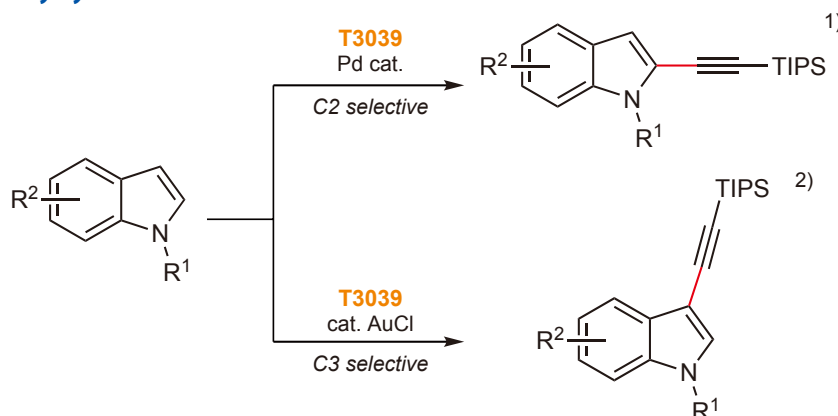
Applications

Regioselective Synthesis of Ethynylfurans via Gold Catalysis



Y. Li, J. P. Brand, J. Waser, *Angew. Chem. Int. Ed.* **2013**, 52, 6743.

Regioselective Ethynylation to Indoles



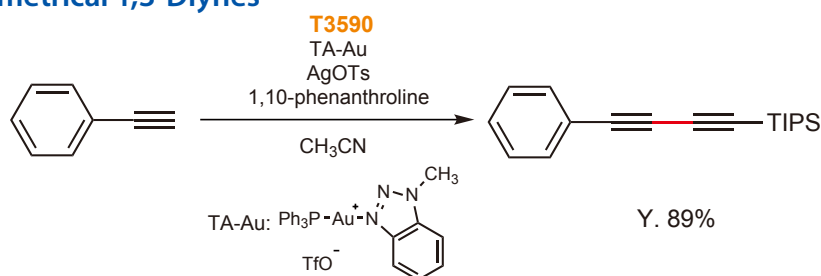
1) G. L. Tolnai, S. Ganss, J. P. Brand, J. Waser, *Org. Lett.* **2013**, 15, 112.

2) J. P. Brand, J. Charpentier, J. Waser, *Angew. Chem. Int. Ed.* **2009**, 48, 9346.

Hypervalent Iodine Reagents for Ethynylation

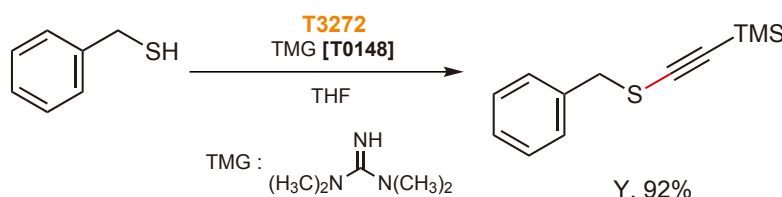
Applications

Synthesis of Unsymmetrical 1,3-Diynes



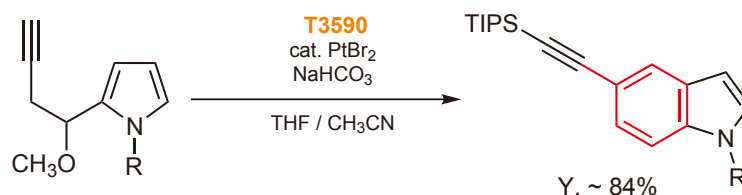
X. Li, X. Xie, N. Sun, Y. Liu, *Angew. Chem. Int. Ed.* **2017**, 56, 6994.

Heavy Metal-free Ethynylation



R. Frei, J. Waser, *J. Am. Chem. Soc.* **2013**, 135, 9620.

Indole Ring Formation via Platinum Catalysis



Y. Li, J. Waser, *Angew. Chem. Int. Ed.* **2015**, 54, 5438.

1-[2-(Triisopropylsilyl)ethynyl]-3,3-bis(trifluoromethyl)-1,2-benziodoxole
200mg [T3590]

1-[(Triisopropylsilyl)ethynyl]-1,2-benziodoxol-3(1H)-one (= TIPS-EBX)
200mg / 1g [T3039]

1-[(Trimethylsilyl)ethynyl]-1,2-benziodoxol-3(1H)-one (= TMS-EBX)
1g / 5g [T3272]

Related Products

1,1,3,3-Tetramethylguanidine (= TMG) 25mL / 100mL / 500mL [T0148]

Tetrabutylammonium Fluoride (ca. 1 mol/L in Tetrahydrofuran)
25mL / 100mL / 500mL [T1338]

For further information please refer to our website at www.TCIchemicals.com.

ethynylation



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