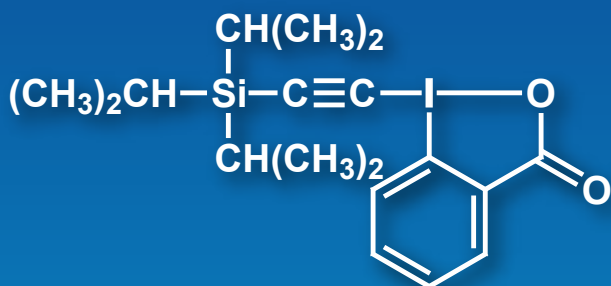
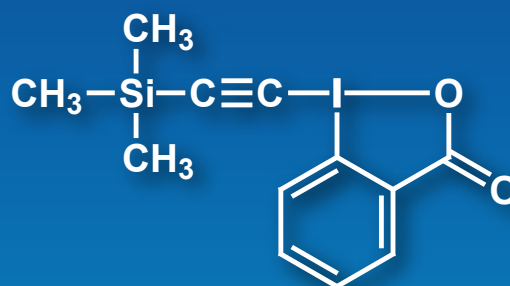


# Hypervalent Iodine Reagents for Ethynylation



**TIPS-EBX**  
[T3039]



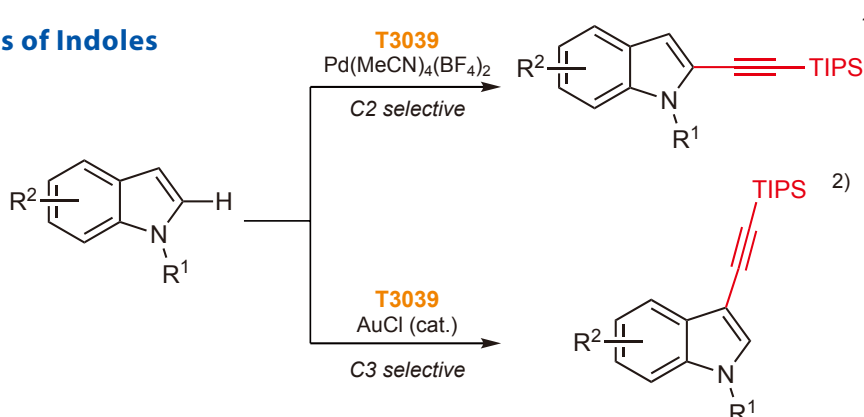
**New TMS-EBX**  
[T3272]

## Advantages

- Usable for Regioselective Ethynylations of Heterocycles
- Applicable to Heavy-metal-free Ethynylations

## Applications

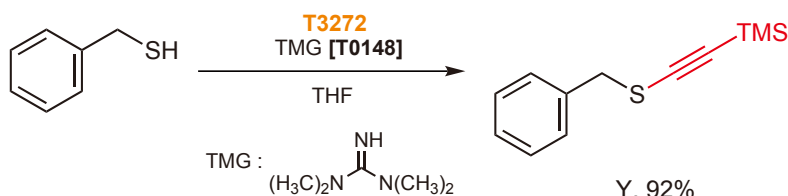
### Regioselective Ethynylations of Indoles



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

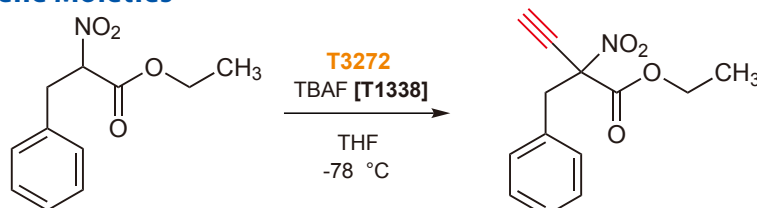
2) J. P. Brand, J. Charpentier, J. Waser, *Angew. Chem. Int. Ed.* **2009**, 48, 9346.

### Ethynylation of Thiols



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

### Ethynylation to Active Methylene Moieties



Y. 93%

D. F. González, J. P. Brand, J. Waser, *Chem. Eur. J.* **2010**, 16, 9457.



# Hypervalent Iodine Reagents for Ethynylation

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

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

## Related Products

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

**T1338** Tetrabutylammonium Fluoride (ca. 1mol/L in Tetrahydrofuran) (= TBAF)  
25mL / 100mL / 500mL

## Other Ethynylation Reagents

**E0467** Ethynyl(phenyl)iodonium Tetrafluoroborate 1g

**P1239** Trimethylsilylethynyl(phenyl)iodonium Tetrafluoroborate 1g

For further information please refer to our website at [www.TCIchemicals.com](http://www.TCIchemicals.com).

ethynylation



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