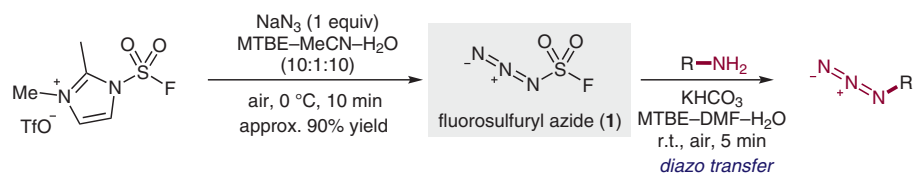


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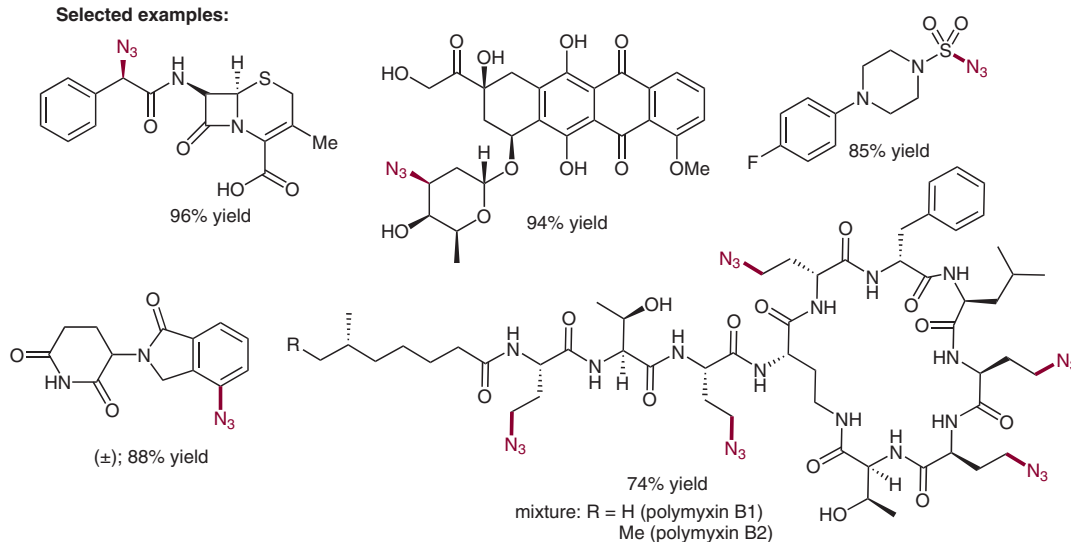
Modular Click Chemistry Libraries for Functional Screens using a Diazotizing Reagent

*Nature* 2019, 574, 86–89.

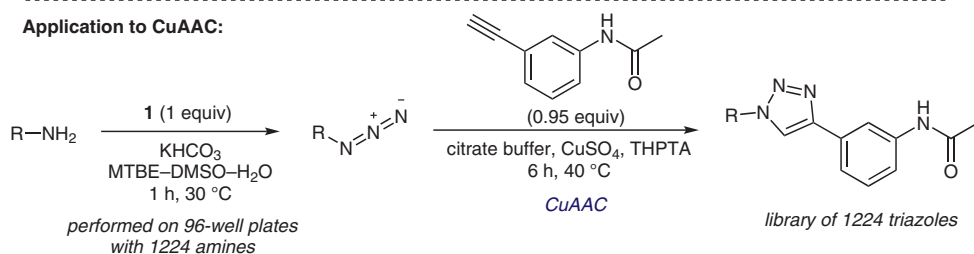
## Click Chemistry for the Synthesis of Azides



### Selected examples:



### Application to CuAAC:



**Significance:** Copper-catalyzed azide alkyne click chemistry (CuAAC) is a powerful bioorthogonal reaction that provides triazole products in very high yields. A significant limitation is the restricted access to the azide precursors because azide preparation with NaN<sub>3</sub> or TfN<sub>3</sub> suffers from long reaction times, toxicity, or risk of explosion. The authors present a new, highly reactive diazo transfer reagent that enables rapid and safe access to azides from amines.

**Comment:** Previously reported fluorosulfonyl imidazolium triflate salt (Guo et al. *Angew. Chem. Int. Ed.* 2018, 57, 2605) was treated with NaN<sub>3</sub> to generate fluorosulfonyl azide **1** in situ. In an optimized solvent system (DMF-MTBE-H<sub>2</sub>O), **1** undergoes diazo transfer to a broad variety of amines in a click chemistry fashion.

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Synfacts 2019, 15(12), 1435 Published online: 18.11.2019  
DOI: 10.1055/s-0039-1691124; Reg-No.: T11219SF

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Category

Chemistry in  
Medicine and  
Biology

Key words

diazo transfer  
click chemistry  
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