

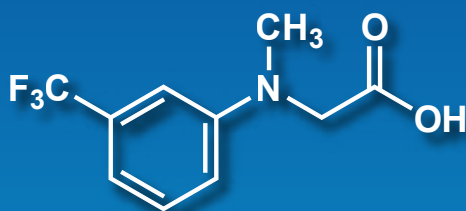
New

CHEMISTRY

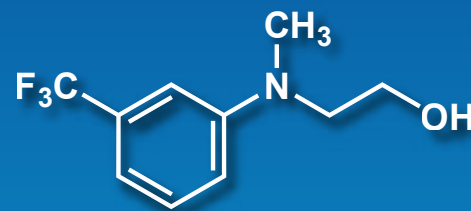
LIFE SCIENCE

TGI[®]

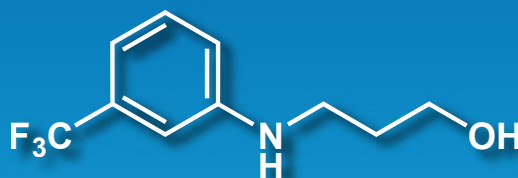
Photoactivatable Fluorescent Labeling Agents for Amines and Thiols



N-Methyl-N-[3-(trifluoromethyl)phenyl]glycine
200mg [M3835]

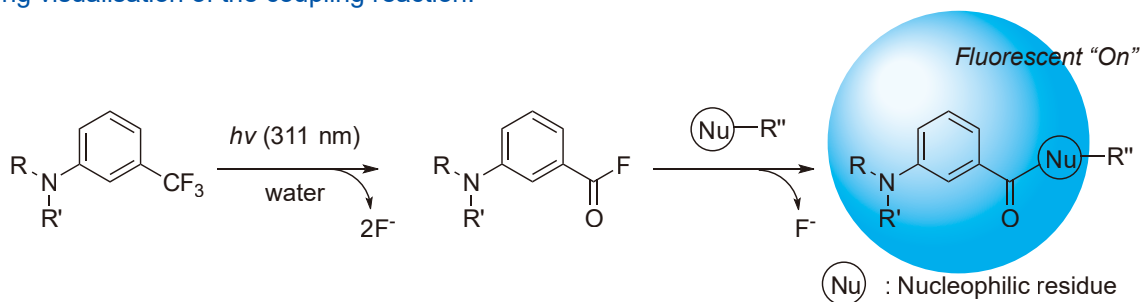


2-[Methyl[3-(trifluoromethyl)phenyl]amino]ethan-1-ol
200mg [M3811]



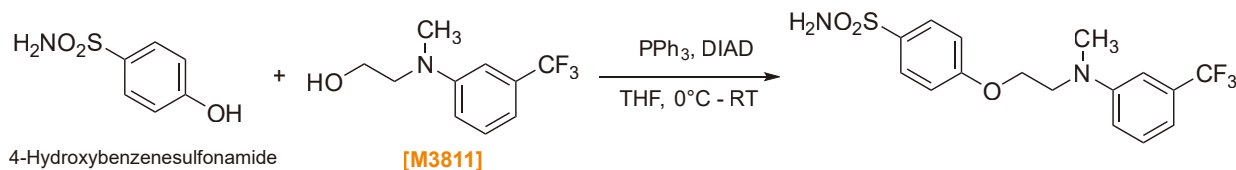
3-[[3-(Trifluoromethyl)phenyl]amino]propan-1-ol
200mg [T4408]

m-Trifluoromethylaniline derivatives form covalent bonds with primary/secondary amines and thiols in aqueous environments upon irradiation with 311 nm light.^{1,2} This process significantly enhances fluorescence intensity, enabling visualisation of the coupling reaction.



The half-life of acyl fluoride intermediates is considerably longer than that of alkyl diazo or alkyl carbene intermediates, enabling the capture of low-affinity targets in the profiling of proteins interacting with drugs. We offer three products useful for introducing *m*-trifluoromethylaniline derivative moieties.

Application : Synthesis of photo-affinity labeling (PAL) probe



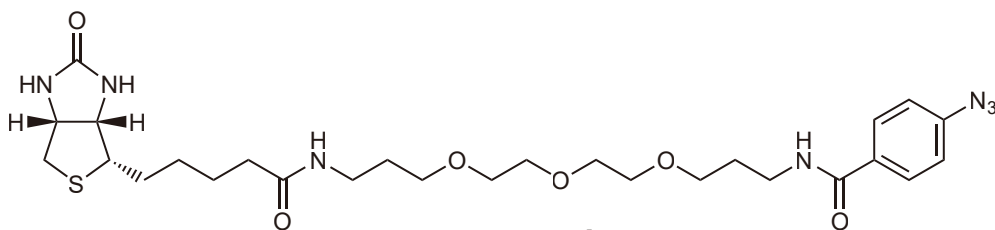
4-Hydroxybenzenesulfonamide

[M3811]

- References
- 1) L. Deng *et al.*, *Chem. Sci.* **2023**, *14*, 3630. <https://doi.org/10.1039/D2SC04636A>
 - 2) J. Fu *et al.*, *Chem. Commun.* **2023**, *59*, 11073. <https://doi.org/10.1039/D3CC02771F>

Photoactivatable Fluorescent Labeling Agents for Amines and Thiols

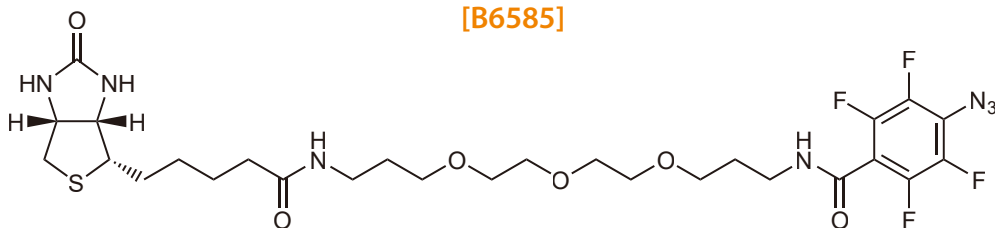
Related Products



Biotin-PEG3-PhN₃

50mg / 200mg

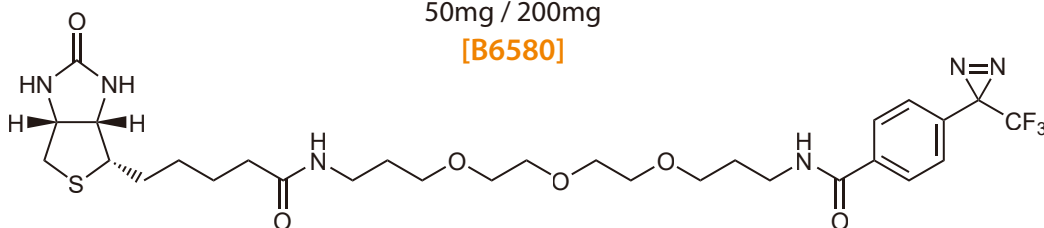
[B6585]



Biotin-PEG3-TFPA

50mg / 200mg

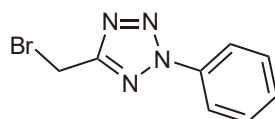
[B6580]



Biotin-PEG3-Dz

50mg / 200mg

[B6572]



5-(Bromomethyl)-2-phenyl-2H-tetrazole

100mg

[B6880]

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