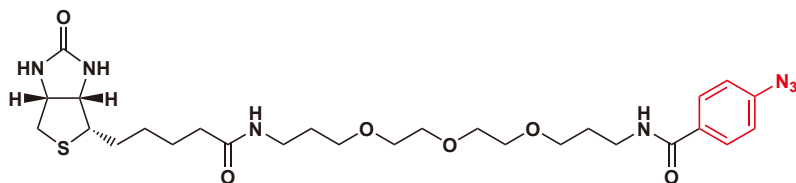


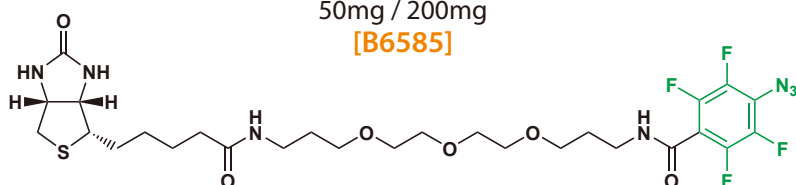
Photoreactive Labeling Agents

Biotins with a photoreactive functional group, allow target labeling at any time via light irradiation and are detected by streptavidin or similar. TCI carries photoreactive biotinylation reagents with PEG chains. We also offer building blocks for the synthesis of photoreactive labeling reagents that can add an alkyne moiety to the target molecule by photo-crosslinking with diazirine moieties.



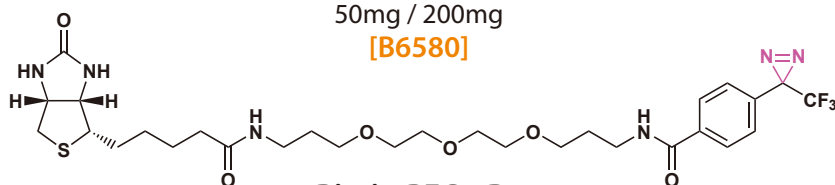
Biotin-PEG3-PhN₃
50mg / 200mg
[B6585]

The **phenylazide group** is activated by UV light and reacts with C-H bonds, N-H bonds, etc. to form a random covalent bond.¹⁾



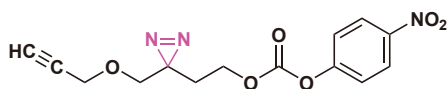
Biotin-PEG3-TFPA
50mg / 200mg
[B6580]

The **tetrafluorophenylazide (TFPA) group**, which has electron-withdrawing fluoro groups on the phenylazide moiety, is reported to have high labeling efficiency.^{1,2)}

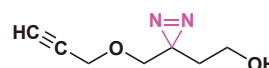


Biotin-PEG3-Dz
50mg / 200mg
[B6572]

The **diazirine group** is activated by light irradiation around 360 nm, allowing efficient labeling with minimal damage to proteins and living organisms.^{1,3)}



4-Nitrophenyl [2-[3-[(Prop-2-yn-1-yloxy)methyl]-3H-diazirin-3-yl]ethyl] Carbonate
100mg
[N1200]



2-[3-[(Prop-2-yn-1-yloxy)methyl]-3H-diazirin-3-yl]ethan-1-ol
100mg
[P2843]

- References 1) E. Smith, I. Collins, *Future Med. Chem.* **2015**, 7, 159. <https://doi.org/10.4155/fmc.14.152>
2) Y. Xia, L. Peng, *Chem. Rev.* **2013**, 113, 7880. <https://doi.org/10.1021/cr300419p>
3) A. V. West, C. M. Woo, et al., *J. Am. Chem. Soc.* **2021**, 143, 6691. <https://doi.org/10.1021/jacs.1c02509>

Related Products

Streptavidin FITC Conjugate
Streptavidin R-PE Conjugate
6-FAM-PEG3-Azide
JQ-1 Carboxylic Acid
NHS-SS-Diazirine (= SDAD)

0.1mg/vial [S0966]
0.1mg/vial [T3885]
5g / 25g [F1243]
100mg [J0039]
10mg [D5887]

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