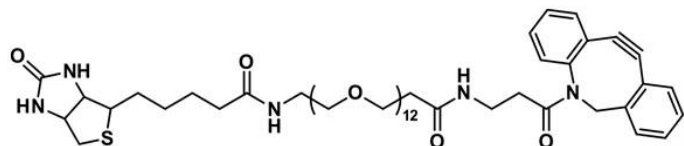




BIOTIN-DPEG®₁₂-DBCO

SKU: QBD-11811



DESCRIPTION

Biotin-dPEG®₁₂-DBCO, product number QBD-11811, is a click chemistry biotinylation reagent built on a medium-length (40 atoms, 46.3 Å) single molecular weight PEG linker with a discrete chain length (dPEG®) and functionalized with dibenzylcyclooctyne (DBCO) for strain-promoted azide-alkyne cycloaddition (SPAAC), also known as “copper-free click chemistry.” The DBCO functional group reacts with any available azide moiety on a target molecule via SPAAC. The amphiphilic dPEG® spacer imparts water solubility to the biotin label, reducing non-specific hydrophobic interactions and reducing or eliminating concerns over aggregation and precipitation due to biotin’s well-known hydrophobicity. Because the hydrophilic dPEG® linker is longer than the classic, hydrophobic LC-LC-biotin, the biotin moiety has potentially better access to the binding pockets of avidin and streptavidin. Peptide and protein modification can be used to introduce suitable azide partners for this biotin labeling compound.

SPECIFICATIONS

CAS Number	N/A
Molecular Weight	1102.34; single compound
Chemical Formula	C ₅₅ H ₈₃ N ₅ O ₁₆ S
Purity	> 98%
Unit Size	10 mg, 25 mg, 1000 mg
Solubility	Methylene Chloride, Methanol, DMF, DMAC, or DMSO.
Spacers	dPEG® Spacer is 40 atoms and 46.3 Å

For research use only. Not intended for therapeutic or diagnostic use in animals or humans.



Storage Instructions

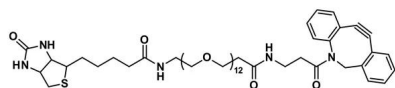
-20°C; Always let come to room temperature before opening; be careful to limit exposure to moisture and restore under an inert atmosphere; stock solutions can be prepared with dry solvent and kept for several days (freeze when not in use). dPEG® pegylation compounds are generally hygroscopic and should be treated as such. This will be less noticeable with liquids, but the solids will become tacky and difficult to manipulate, if care is not taken to minimize air exposure.

Shipping Instructions Ambient

DOCUMENTS

- [Safety Data Sheet](#)
- [Datasheet](#)

GALLERY IMAGES



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