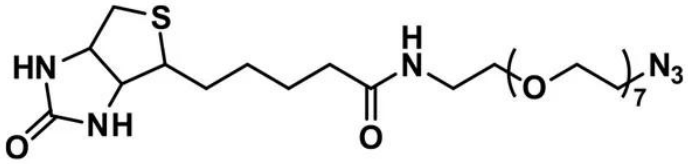
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BIOTIN-DPEG®$_7$-AZIDE

SKU: QBD-10825



DESCRIPTION

Biotin-dPEG®7-azide, product number QBD-10825, is a water-soluble biotinylation product functionalized with azide for click chemistry use on a short (27 atoms, 30.7 Å) single molecular weight, discrete PEG (dPEG®) chain. This product enables the biotinylation of molecules alkyne-containing molecules and surfaces using either metal-catalyzed (CuAAC, RuAAC) or strain-promoted azide-alkyne cycloaddition (SPAAC) chemistry. Moreover, the hydrophilic discrete PEG spacer makes biotin highly water soluble, reducing or eliminating aggregation and precipitation of biotin-labeled biomolecules triggered by hydrophobic interactions. Consequently, these products allow new types of biotinylated constructs.

Because Biotin-dPEG®7-azide is a single molecular weight dPEG® product, analysis of the resulting conjugates is simplified. The researcher using this product does not have to analyze a variety of PEG chain lengths and molecular weights. Instead, the well-defined dPEG® product will yield predictable, identifiable conjugates. When using Biotin-dPEG®7-azide with proteins or peptides engineered to contain alkyne side chains at specific locations, both the number and location of conjugation sites are predictable.

As a biotinylation reagent, Biotin-dPEG®7-azide works in various applications. Pull-down assays, affinity purification, plate-type assays such as ELISA, and supramolecular construction can all incorporate Biotin-dPEG®7-azide.

SPECIFICATIONS

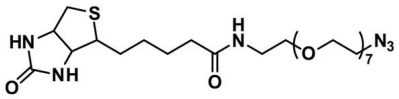
For research use only. Not intended for therapeutic or diagnostic use in animals or humans.

CAS Number	1334172-75-6
Molecular Weight	620.32; single compound
Chemical Formula	$C_{26}H_{48}N_6O_9S$
Purity	> 98%
Unit Size	100mg, 1000mg
Solubility	Methylene chloride, DMAC or DMSO.
Spacers	dPEG® Spacer is 27 atoms and 30.7 Å
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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