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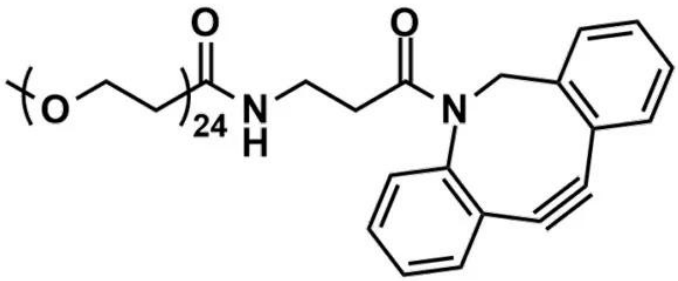
M-DPEG®$_{24}$-DBCO

SKU: QBD-10583



DESCRIPTION

m-dPEG®24-DBCO, product number QBD-10583, is a methoxy-terminated, discrete polyethylene glycol (dPEG®) click chemistry reagent designed for chemical modification of surfaces through strain-promoted azide-alkyne cycloaddition (SPAAC). From the terminal methyl group to the reactive site on the dibenzylcyclooctyne (DBCO) group, the dPEG® spacer is 83 atoms long.

DBCO was designed for bio-orthogonal click chemistry applications using SPAAC, also known as copper-free click chemistry, which was developed by Carolyn Bertozzi and colleagues to avoid the potential toxicity of Cu(I) that is used in Copper(I)-Promoted Azide Alkyne Cycloaddition (CuAAC) discovered by K. Barry Sharpless and colleagues. The dPEG® spacer differs from traditional PEG spacers and linkers in that it consists of a single molecular weight and chain length of PEG (i.e., it is monodispersed), which simplifies analysis of conjugates made with this compound.

Potential uses for this product include modifying alkyne-functionalized surfaces and peptides and proteins containing alkyne-functionalized amino acid side chains.

SPECIFICATIONS

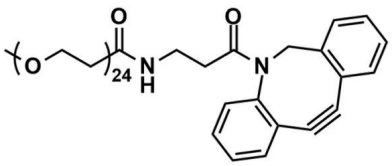
For research use only. Not intended for therapeutic or diagnostic use in animals or humans.

CAS Number	N/A
Molecular Weight	1375.63; single compound
Chemical Formula	$C_{69}H_{116}N_2O_{26}$
Purity	> 97%
Unit Size	100mg, 1000mg
Solubility	Methylene Chloride, Acetonitrile, DMSO, DMF or DMAC.
Spacers	dPEG® Spacer is 83 atoms and 91.54 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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