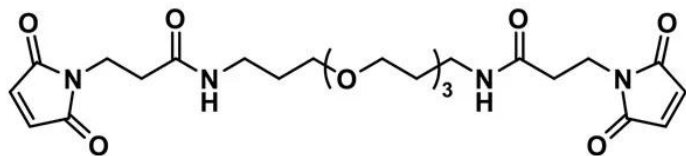


BIS-MAL-DPEG®₃

SKU: QBD-10215



"Bis-MAL-dPEG®₃, product number QBD-10215, is a short, homobifunctional, crosslinking reagent that links two molecules (e.g., peptides, proteins) together via the thiol-maleimide reaction (also known as the thiol-Michael addition). Maleimidopropionate groups functionalize each end of the molecule. A single molecular weight, discrete polyethylene glycol (dPEG®) spacer separates the two end groups.

The thiol-maleimide reaction, a type of click chemistry reaction, is a popular way to conjugate molecules. The maleimide functional group rapidly reacts with sulfhydryl groups, and the reaction is chemoselective for sulfhydryls in the pH range of 6.5 – 7.5. The discrete chain length polyethylene glycol (dPEG®) spacer between the two maleimide groups is a single molecular weight compound. Applications for this product include mapping which proteins in a complex are close together; determining ligand-receptor binding relationships; and construction of antibody-drug conjugates (ADCs), among many others."

Specifications

Unit Size	50 mg, 1000 mg
Molecular Weight	522.55; single compound
Chemical formula	C ₂₄ H ₃₄ N ₄ O ₉
CAS	756525-99-2
Purity	> 98%
Spacers	dPEG® Spacer is 28 atoms and 30 Å
Shipping	Ambient

For research use only. Not intended for animal or human therapeutic or diagnostic use.

**Typical solubility
properties (for
additional information
contact Customer
Support)**

Methylene chloride, DMAC or DMSO.

Storage and handling

-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.

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