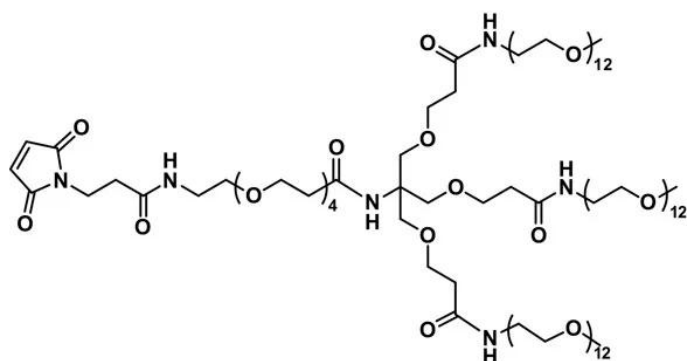




MAL-DPEG® 4-(M-DPEG® 12)3

SKU: QBD-10406



DESCRIPTION

MAL-dPEG® 4-(m-dPEG® 12)3, QBD-10406, is a thiol-reactive, branched, monodisperse PEG product that can modify the performance and distribution of biologic drugs. This single molecular weight, discrete-length PEG (dPEG®) product consists of a tris core from which branch three methyl-terminated dPEG® 12 arms and one maleimide-functionalized dPEG® 4 arm. From the reactive site on the maleimido group to the terminal methyl moiety on each of the dPEG® 12 branches, the dPEG® spacer is 67 atoms (75.8 Å). This unique branched dPEG® construct increases the water solubility and hydrodynamic volume of conjugates that incorporate it. Also, MAL-dPEG® 4-(m-dPEG® 12)3 can reduce or eliminate immunogenicity and non-specific, hydrophobic interactions.

MAL-dPEG® 4-(m-dPEG® 12)3 is best used to modify proteins, peptides, and other large biomolecules. Maleimide reacts with free thiols that occur in such molecules. The thiol-maleimide reaction is rapid and specific within the optimal pH range (6.5 – 7.5). Scientific publications report using MAL-dPEG® 4-(m-dPEG® 12)3 several times. These uses include probing protein structure and function, PEGylating cell surfaces, and dissecting protein-protein interactions. The reference work Bioconjugate Techniques, 3rd edition, by Greg T. Hermanson, contains specific protocols for the maleimide-thiol reaction.

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



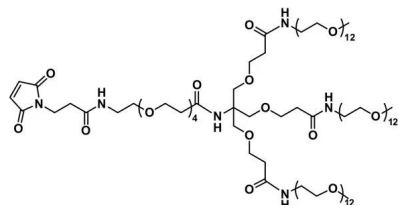
SPECIFICATIONS

CAS Number	1334178-05-0
Molecular Weight	2360.75
Chemical Formula	C ₁₀₆ H ₂₀₂ N ₆ O ₅₀
Purity	> 96%
Unit Size	100 mg, 1000 mg
Solubility	Methylene chloride, DMAC, DMSO, water or Acetonitrile.
Spacers	dPEG® Spacer is 67 atoms and 75.8 Å, Avg. -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®
Storage Instructions	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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