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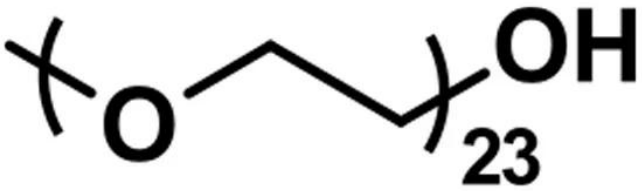
M-DPEG®$_{23}$-OH

SKU: QBD-10942



m-dPEG®23-OH, product number QBD-10942, is a chemical modification reagent consisting of a long (70 atoms, 83.1 Å), methyl-terminated, water-soluble, non-immunogenic, single molecular weight, discrete polyethylene glycol (dPEG®) chain that terminates with a reactive primary alcohol (i.e., a hydroxy group). The hydroxy group can be functionalized with different groups that enable various types of reactions.

This product is comparable to mPEG1000, but it is a monodispersed PEG rather than a heterogeneous polymer PEG. Functionalization of the terminal alcohol with a variety of different groups permits this product to bring the benefits of dPEG® products to surfaces, small molecules, and biomolecules, including peptides, proteins, carbohydrates, and oligonucleotides. One useful application of this product is in coating surfaces to prevent non-specific or hydrophobic interactions. Other benefits that m-dPEG®23-OH brings to conjugated molecules include increased hydrodynamic volume (leading to reduced renal clearance), better water solubility, and reduced antigenicity.

Specifications

Unit Size	100mg, 1000mg
Molecular Weight	1045.25; single compound
Chemical formula	$C_{47}H_{96}O_{24}$
CAS	114740-40-8
Purity	> 95%
Spacers	dPEG® Spacer is 70 atoms and 83.1 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, Acetonitrile, DMAC, DMSO or water.
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.
