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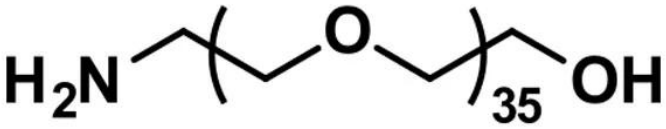
AMINO-DPEG®$_{36}$-OH

SKU: QBD-10869



Amino-dPEG®36-OH, product number QBD-10869, also known as Amino-dPEG®36-alcohol, is a long (107 atoms, 129.0 Å), monodispersed PEGylation reagent designed to modify surfaces and biomolecules. One end of the molecule terminates with a primary amine, while the other end terminates with a primary alcohol group. This extremely hydrophilic PEGylation reagent reacts with carboxylate groups via the primary amine, leaving the hydroxy terminus free for functionalization and further reactions or as a hydrophilicity or charge modifier for the conjugate molecule.

The most common uses for Amino-dPEG®36-OH include modifying biomolecules and passivating surfaces with a highly hydrophilic coating. The primary amine on one end of the dPEG® linker reacts with carboxylates to form stable amide bonds and with aldehydes and ketones to form labile Schiff bases that can be reduced to secondary amines under mild conditions for greater stability. Conjugations with this molecule most commonly use the amine-carboxylate reaction with a carbodiimide such as EDC. Alternatively, activation of carboxylate as the NHS or TFP ester followed by reaction under slightly basic conditions also permits conjugation of the carboxylate and amino moieties.

Specifications

Unit Size	100mg, 1000mg
Molecular Weight	1602.92; single compound
Chemical formula	$C_{72}H_{147}NO_{36}$
CAS	933789-97-0
Purity	> 97%
Spacers	dPEG® Spacer is 107 atoms and 129.0 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 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.