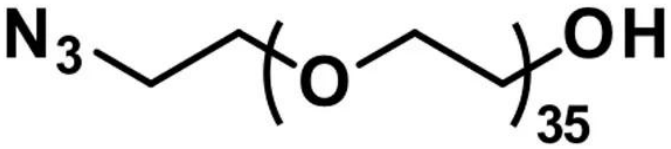
www.vectorlabs.com
Email: customerservice@vectorlabs.com
Telephone: (650) 697-3600

AZIDO-DPEG®$_{36}$-OH

SKU: QBD-10544



DESCRIPTION

Azido-dPEG®36-OH (Azido-dPEG®36-alcohol), product number QBD-10544, is a click chemistry reagent used to modify surfaces and biomolecules or to crosslink with other surfaces or biomolecules in supramolecular construction. This product consists of an azide and a terminal hydroxy group separated by a long (108 atoms), single molecular weight, discrete-length polyethylene glycol (dPEG®) chain. The terminal azide reacts in copper(I)-catalyzed, ruthenium-catalyzed, and strain-promoted azide-alkyne cycloaddition reactions (CuAAC, RuAAC, and SPAAC, respectively). If left unmodified, the alcohol group increases the water solubility and hydrodynamic volume of molecules and surfaces to which it is conjugated. Modifying the alcohol with a reactive group such as chloride, tosylate, or mesylate allows Azido-dPEG®36-OH to function as a crosslinker through subsequent chemical manipulations.

As a click chemistry reagent, azido-dPEG®36-OH can participate in CuAAC, RuAAC, and SPAAC reactions. Because Vector Laboratories' dPEG® products are amphiphilic, these reactions can occur almost equally well in water or organic solvents. The primary alcohol group on the opposite end of the linker can be used as a neutrally charged functional group. In this function, the alcohol enhances the water solubility of the conjugate molecule. Alternatively, the alcohol group can be functionalized with reactive groups and used to modify the conjugate further. Thus, azido-dPEG®36-OH can be used in conjugations with biomolecules where organic solvents may damage the conjugate target. This product was published in a 2014 paper demonstrating high-throughput modifications of siRNA via CuAAC.

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

www.vectorlabs.com
Email: customerservice@vectorlabs.com
Telephone: (650) 697-3600

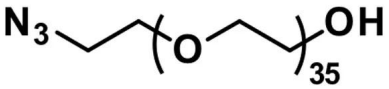
SPECIFICATIONS

CAS Number	73342-16-2
Molecular Weight	1628.92; single compound
Chemical Formula	$C_{72}H_{145}N_3O_{36}$
Purity	> 97%
Unit Size	100mg, 1000mg
Solubility	Methylene chloride, Acetonitrile, DMAC, DMSO or water.
Spacers	dPEG® Spacer is 108 atoms and 129.7 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



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