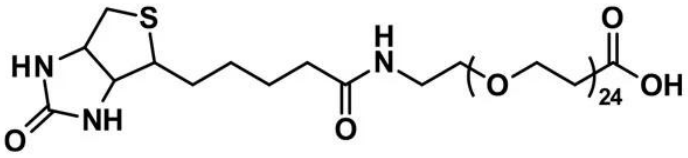
www.vectorlabs.com
Email: customerservice@vectorlabs.com
Telephone: (650) 697-3600

DPEG®24-BIOTIN ACID

SKU: QBD-10773



DESCRIPTION

dPEG®24 biotin acid, product number QBD-10773, is a biotinylation reagent containing a single molecular weight, discrete polyethylene glycol (dPEG®) spacer that is functionalized with biotin on one end and a propionic acid moiety on the other. The dPEG® linker length is 76 atoms. The terminal propionic acid group couples to amines directly using a carbodiimide such as EDC, and it can be functionalized as an N-hydroxysuccinimidyl (NHS) or 2,3,5,6-tetrafluorophenyl (TFP) ester for reaction with amines.

Amphiphilic dPEG®24 biotin acid is soluble in water, aqueous buffers, and organic solvents. When used as a label, it does not cause aggregation or precipitation of biomolecules, even when excess label is used. Using 1-Ethyl-3-(3-dimethylaminopropyl)carbodiimide (EDC) chemistry, QBD-10773 can be coupled directly to free primary amines in aqueous media. These free amines can be on a protein, peptide, or the treated surface of a nanoparticle. The linker length of dPEG®24 biotin acid is longer than the linker length of LC-biotin and longer than the linker length of LC-LC-biotin. The performance characteristics of dPEG®24-biotin acid are quite superior to both LC-biotin and LC-LC-biotin.

Many applications use this product to take advantage of the strong avidin-biotin binding interaction. Such applications include single-cell imaging of protein secretion, developing biosensors, isolating specific cell types by separation with magnetic beads, characterizing and understanding the streptavidin-biotin interaction, creating affinity-based probes, and assembling supramolecular nanostructures.

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

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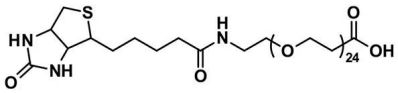
SPECIFICATIONS

CAS Number	721431-18-1
Molecular Weight	1372.65; single compound
Chemical Formula	$C_{61}H_{117}N_3O_{28}S$
Purity	> 97%
Unit Size	100mg, 1000mg
Solubility	Methylene chloride, Acetontrile, DMAC, DMSO or water.
Spacers	dPEG® Spacer is 76 atoms and 95.7 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



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