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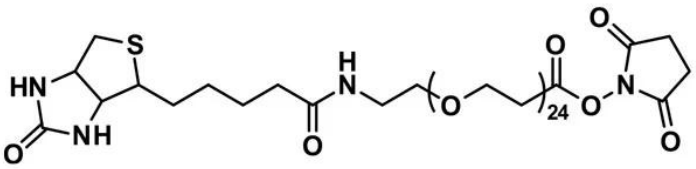
NHS-DPEG®$_{24}$-BIOTIN

SKU: QBD-10774



DESCRIPTION

NHS-dPEG®24-biotin, product number QBD-10774, is an amine-reactive biotinylation product containing a single molecular weight, discrete PEG (dPEG®) linker that is 76 atoms long. Although biotin usually is poorly soluble in water, the amphiphilic dPEG® linker creates excellent water solubility while maintaining organic solvent solubility. The N-hydroxysuccinimidyl (NHS) moiety of NHS-dPEG®24-biotin reacts optimally with free primary amines in the pH range 7.0 – 7.5., forming stable amide bonds. Unlike the classic, hydrophobic biotin linkers, LC-biotin and LC-LC-biotin, NHS-PEG®24-biotin does not cause protein aggregation due to over-labeling of the target molecule. Labeling experiments, supramolecular construction, affinity chromatography, pull-down assays, the creation of biotinylated antibodies, and many other applications can use NHS-dPEG®24-biotin to take advantage of the exceptionally high affinity between biotin and avidin or streptavidin.

SPECIFICATIONS

CAS Number	365441-71-0
Molecular Weight	1469.72; single compound
Chemical Formula	$C_{65}H_{120}N_4O_{30}S$
Purity	> 98%
Unit Size	50mg, 1000mg
Solubility	Methylene chloride, Acetonitrile, DMAC or DMSO.
Spacers	dPEG® Spacer is 76 atoms and 97.7 Å

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

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