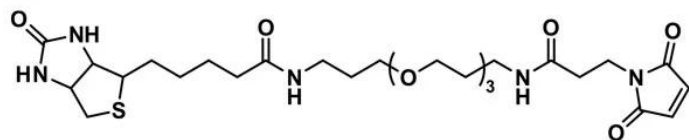




BIOTIN-DPEG®₃-MAL

SKU: QBD-10201



DESCRIPTION

Biotin-dPEG®₃-MAL, product number 10201, is one of three products containing biotin on one end of a dPEG® linker and a maleimidopropyl moiety on the other. For QBD-10201, the linker is a dPEG®₃ product. The flexible, short-chain, discrete PEG (dPEG®) linker imparts water solubility to conjugates formed with it. The maleimide moiety is a popular reactive group for conjugating to free thiol groups in biomolecules and other sulfhydryl compounds. Maleimide groups can be conjugated to free thiol groups in the pH range 6.5 – 7.5, forming a stable thioether linkage.

This product has proven helpful in various applications that utilize the high streptavidin-biotin binding affinity. Such applications include

FRET-based assays

probes of protein topology

protein labeling

the creation of biotinylated, dPEG®-modified nucleosides

different types of high-throughput screening procedures

the construction of biomimetic gold-and-silica nanoparticles, and

the construction of self-assembling quantum dots.

To use Biotin-dPEG®₃-MAL, dissolve the product in a dry solvent and add it to an aqueous compound containing the free thiol. The water-miscible solvent N,N'-dimethylacetamide (DMAC) dried over 3Å molecular sieves is an excellent solvent for this purpose. For biomolecules (e.g., antibodies), care should be taken to use a minimal amount of organic solvent so as not to denature the biomolecule or cause salt precipitation.

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



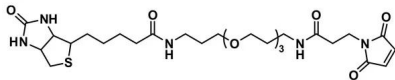
SPECIFICATIONS

CAS Number	525573-22-2
Molecular Weight	597.73; single compound
Chemical Formula	C ₂₇ H ₄₃ N ₅ O ₈ S
Purity	> 98%
Unit Size	50 mg
Solubility	Methylene chloride, DMAC or DMSO.
Spacers	dPEG® Spacer is 21 atoms and 24.9 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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