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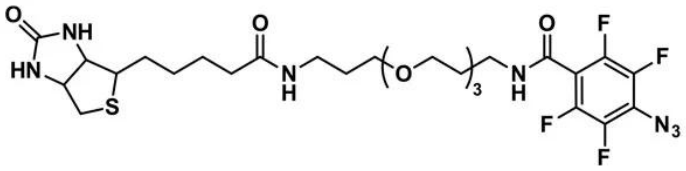
BIOTIN-DPEG®₃-TFPA

SKU: QBD-10308



DESCRIPTION

Biotin-dPEG®3-TFPA, product number QBD-10308, is designed for inserting a biotin label into otherwise inaccessible locations using photoaffinity labeling. The reactive group is the tetrafluorophenyl azide (TFPA), which inserts into random C-H bonds following activation with long-wavelength ultraviolet (UV) light (360 nm, UVA). The short single molecular weight, discrete chain-length PEG (dPEG®) spacer imparts hydrophilicity to biotin, which is normally not very soluble in aqueous media.

The biotin moiety binds tightly with avidin and streptavidin and has proven useful in several different types of applications, including:
affinity chromatography;
construction of supramolecular platforms for various purposes, including drug delivery;
in vivo proximity labeling of proteins and nucleic acids; and,
development and testing of microarray diagnostic sensors.

SPECIFICATIONS

CAS Number	1264662-85-2
Molecular Weight	663.69; single compound
Chemical Formula	$C_{27}H_{37}F_4N_7O_6S$
Purity	> 98%
Unit Size	50 mg, 100 mg
Solubility	DMAC or DMSO.

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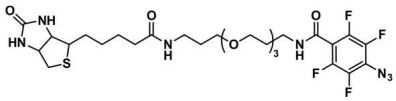
Spacers	dPEG® Spacer is 15 atoms and 16.9 Å
Storage Instructions	-20°C; Always let come to room temperature before opening; be careful to limit exposure to moisture and restore under an inert atmosphere; stock solutions can be prepared with dry solvent and kept for several days (freeze when not in use). 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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