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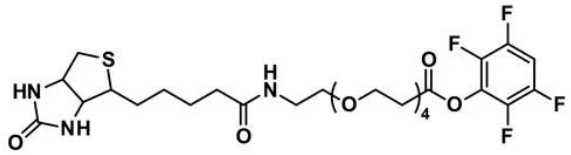
BIOTIN-DPEG®₄-TFP ESTER

SKU: QBD-10009



Description

Biotin-dPEG®4-TFP ester, product number 10009, is an amine-reactive, water-soluble biotin label functionalized with a hydrolytically stable 2,3,5,6-tetrafluorophenyl ester. The single molecular weight PEG4 (dPEG®4) linker is longer than the aminocaproic acid linker of LC-biotin and slightly longer than the two conjugated aminocaproic acid linkers of LC-LC-biotin, allowing for better interaction with the biotin-binding pockets of avidin and streptavidin. Furthermore, unlike traditional LC linkers, the dPEG® linker is flexible and hydrophilic, eliminating biotinylated protein aggregation proteins over time. The TFP ester is more hydrolytically stable than classic NHS esters and has an optimum pH range of 7.5 - 8.5 for conjugating to free amines.

Specifications

Unit Size	100mg, 1000mg
Molecular Weight	639.66; single compound
Chemical formula	$C_{27}H_{37}F_4N_3O_8S$
CAS	N/A
Purity	> 98%
Spacers	dPEG® Spacer is 16 atoms and 19.2 Å
Shipping	Ambient

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

Typical solubility properties (for additional information contact Customer Support)	Methylene chloride, DMAC or DMSO.
Storage and handling	-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.
