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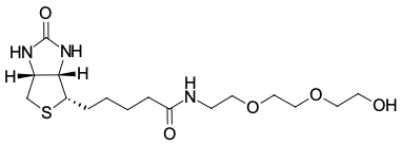
Biotin-PEG3-OH

http://www.lumiprobe.com/p/biotin-peg3-oh-289714-02-9

Bifunctional triethyleneglycol (PEG3) linker with biotin and hydroxyl moieties. The terminal hydroxyl group in the crosslinker can react with esters, azides, amines, and halogen derivatives in various conditions. Biotin-labeled biomolecules can be bound to avidin or streptavidin for further purification and detection.

This structure of biotin azide features a long hydrophilic PEG3 linker that separates biotin residue from the target molecule for efficient binding with streptavidin. Its linker also enhances aqueous solubility to facilitate conjugation.



Structure of Biotin-PEG3-OH

General properties

Appearance:	white solid
Molecular weight:	375.49
CAS number:	289714-02-9
Molecular formula:	$C_{16}H_{29}N_3O_5S$
IUPAC name:	N-(2-(2-(2-Hydroxyethoxy)ethoxy)ethyl)-5-(2-oxohexahydro-1H-thieno[3,4-d]imidazol-4-yl)pentanamide
Solubility:	water, DMSO, DMF, alcohols
Quality control:	NMR ^{1}H and HPLC-MS (95+%)
Storage conditions:	24 months after receival at -20°C in the dark. Transportation: at room temperature for up to 3 weeks. Desiccate.
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