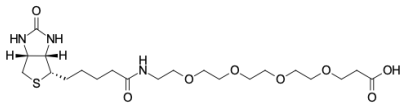
Lumiprobe Corporation
115 Airport Dr Suite 160
Westminster, Maryland 21157
USA
Phone: +1 888 973 6353
Fax: +1 888 973 6354
Email: order@lumiprobe.com

Biotin-PEG4-carboxylic acid

http://www.lumiprobe.com/p/biotin-peg4-carboxylic-acid

Biotin-PEG4-carboxylic acid is a bifunctional tetraethyleneglycol derivative bearing a carboxy group and biotin moiety. The carboxy group can be activated with peptide coupling reagents like PyBOP or carbodiimides like EDC to form a stable amide linkage with amines. Biotin-labeled biomolecules can be bound to avidin or streptavidin for further purification and detection.

The structure of this reagent features a long hydrophilic PEG4 linker that separates biotin residue from the target molecule for efficient binding with streptavidin. The linker also enhances aqueous solubility to facilitate conjugation.



Structure of Biotin-PEG4-carboxylic acid

General properties

Appearance:	white to beige powder
Molecular weight:	491.61
CAS number:	721431-18-1
Molecular formula:	$C_{21}H_{37}N_3O_8S$
IUPAC name:	3-[2-[2-[2-[2-[5-[(3aS,4S,6aR)-2-oxo-1,3,3a,4,6,6a-hexahydrothieno[3,4-d]imidazol-4-yl]pentanoylamino]ethoxy]ethoxy]ethoxy]ethoxy]propanoic acid
Solubility:	good in water, DMSO, DMF
Quality control:	NMR ^1H 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.
Legal statement:	Product is offered and sold for research purposes only. Product is not tested for safety and efficacy in food, drug, medical device, cosmetic, no express or implied authorization to use for any other purpose, including, without limitation, in vitro diagnostic purposes, for humans or animals or for commercial purposes.