

Azido-PEG4-acrylate

Chemical Properties

CAS No. : 1807539-09-8

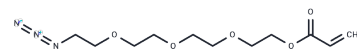
Formula: C₁₁H₁₉N₃O₅

Molecular Weight: 273.29

Keep away from direct sunlight

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.



Biological Description

Description	Azido-PEG4-acrylate is a crosslinker containing an azide group and an acrylate group. The azide group enables Click Chemistry and the acrylate group enables Michael addition. The hydrophilic PEG spacer increases solubility in aqueous media.
Targets(IC50)	Others

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.6591 mL	18.2956 mL	36.5912 mL
5 mM	0.7318 mL	3.6591 mL	7.3182 mL
10 mM	0.3659 mL	1.8296 mL	3.6591 mL
50 mM	0.0732 mL	0.3659 mL	0.7318 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Sano K, Nakajima T, Miyazaki K, Ohuchi Y, Ikegami T, Choyke PL, Kobayashi H. Short PEG-linkers improve the performance of targeted, activatable monoclonal antibody-indocyanine green optical imaging probes. *Bioconjug Chem.* 2013 May 15;24(5):811-6. doi: 10.1021/bc400050k. Epub 2013 May 3. PubMed PMID: 23600922; PubMed Central PMCID: PMC3674550.

Harrison E, Coulter JA, Dixon D. Gold nanoparticle surface functionalization: mixed monolayer versus hetero bifunctional peg linker. *Nanomedicine (Lond).* 2016 Apr;11(7):851-65. Review. PubMed PMID: 27021417.

Augusto MT, Hollmann A, Porotto M, Moscona A, Santos NC. Antiviral Lipopeptide-Cell Membrane Interaction Is Influenced by PEG Linker Length. *Molecules.* 2017 Jul 15;22(7). pii: E1190. doi: 10.3390/molecules22071190.

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Tuma R, Russell M, Rosendahl M, Thomas GJ Jr. Solution conformation of the extracellular domain of the human tumor necrosis factor receptor probed by Raman and UV-resonance Raman spectroscopy: structural effects of an engineered PEG linker. *Biochemistry.* 1995 Nov 21;34(46):15150-6. PubMed PMID: 7578129.

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