

Azido-PEG2-t-butyl ester

Chemical Properties

CAS No.:	20844-48-8
Formula:	C ₁₁ H ₂₁ N ₃ O ₄
Molecular Weight:	259.31
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).

Biological Description

Description	Azido-PEG2-t-butyl ester is a PEG derivative containing a t-butyl ester and an azide group. The hydrophilic PEG spacer increases solubility in aqueous media. Under acidic conditions, the t-butyl protected carboxyl group can be deprotected.
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Solubility Information

Solubility	DMSO: Soluble (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.856 mL	19.282 mL	38.564 mL
5 mM	0.771 mL	3.856 mL	7.713 mL
10 mM	0.386 mL	1.928 mL	3.856 mL
50 mM	0.077 mL	0.386 mL	0.771 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 °C for 6 months; - 20 °C for 1 month. Please use it as soon as possible.

Reference

1. 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.
2. 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.
3. 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. PubMed PMID: 28714870; PubMed Central PMCID: PMC5776016.
4. 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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