

Amino-PEG10-acid

Chemical Properties

CAS No.:	196936-04-6
Formula:	C ₂₃ H ₄₇ NO ₁₂
Molecular Weight:	529.62
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).

Biological Description

Description	Amino-PEG10-acid is a PEG derivative containing an amino group with a terminal carboxylic acid. PEG Linkers may be useful in the development of antibody-drug conjugates and drug delivery methods. The terminal carboxylic acid can be reacted with primary amine groups in the presence of activators to form a stable amide bond.
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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	1.888 mL	9.441 mL	18.881 mL
5 mM	0.378 mL	1.888 mL	3.776 mL
10 mM	0.189 mL	0.944 mL	1.888 mL
50 mM	0.038 mL	0.189 mL	0.378 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. Pignatello R, Impallomeni G, Pistrà V, Cupri S, Graziano AC, Cardile V, Ballistreri A. New amphiphilic derivatives of poly(ethylene glycol) (PEG) as surface modifiers of colloidal drug carriers. III. Lipoamino acid conjugates with carboxy- and amino-PEG(5000) polymers. *Mater Sci Eng C Mater Biol Appl*. 2015 Jan;46:470-81. doi: 10.1016/j.msec.2014.10.054. Epub 2014 Oct 23. PubMed PMID: 25492012.
2. Rubio-Garcia J, Coppel Y, Lecante P, Mingotaud C, Chaudret B, Gauffre F, Kahn ML. One-step synthesis of metallic and metal oxide nanoparticles using amino-PEG oligomers as multi-purpose ligands: size and shape control, and quasi-universal solvent dispersibility. *Chem Commun (Camb)*. 2011 Jan 21;47(3):988-90. doi: 10.1039/c0cc02615h. Epub 2010 Nov 26. PubMed PMID: 21113535.
3. Kitagawa F, Kubota K, Sueyoshi K, Otsuka K. One-step preparation of amino-PEG modified poly(methyl methacrylate) microchips for electrophoretic separation of biomolecules. *J Pharm Biomed Anal*. 2010 Dec 15;53(5):1272-7. doi: 10.1016/j.jpba.2010.07.008. Epub 2010 Aug 1. PubMed PMID: 20678876.
4. Yoshimoto K, Hoshino Y, Ishii T, Nagasaki Y. Binding enhancement of antigen-functionalized PEGylated gold nanoparticles onto antibody-immobilized surface by increasing the functionalized antigen using alpha-sulfanyl-omega-amino-PEG. *Chem Commun (Camb)*. 2008 Nov 14;42(42):5369-71. doi: 10.1039/b811818c. Epub 2008 Sep 16. PubMed PMID: 18985213.

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