

m-PEG12-acid

Chemical Properties

CAS No.:	125220-94-2
Formula:	C ₂₆ H ₅₂ O ₁₄
Molecular Weight:	588.69
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).

Biological Description

Description	M-PEG12-acid is a PEG derivative containing a terminal carboxylic acid. The hydrophilic PEG spacer increases solubility in aqueous media. In the presence of activators (e.g. EDC or DCC), the terminal carboxylic acid can be reacted with primary amine groups 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	1.699 mL	8.493 mL	16.987 mL
5 mM	0.340 mL	1.699 mL	3.397 mL
10 mM	0.170 mL	0.849 mL	1.699 mL
50 mM	0.034 mL	0.170 mL	0.340 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. Brown A, Patel S, Ward C, Lorenz A, Ortiz M, DuRoss A, Wieghardt F, Esch A, Otten EG, Heiser LM, Korolchuk VI, Sun C, Sarkar S, Sahay G. PEG-lipid micelles enable cholesterol efflux in Niemann-Pick Type C1 disease-based lysosomal storage disorder. *Sci Rep.* 2016 Aug 30;6:31750. doi: 10.1038/srep31750. PubMed PMID: 27572704; PubMed Central PMCID: PMC5004151.
2. Saifer MG, Williams LD, Sobczyk MA, Michaels SJ, Sherman MR. Selectivity of binding of PEGs and PEG-like oligomers to anti-PEG antibodies induced by methoxyPEG-proteins. *Mol Immunol.* 2014 Feb;57(2):236-46. doi: 10.1016/j.molimm.2013.07.014. Epub 2013 Nov 5. PubMed PMID: 24200843.
3. Garay RP, El-Gewely R, Armstrong JK, Garratty G, Richette P. Antibodies against polyethylene glycol in healthy subjects and in patients treated with PEG-conjugated agents. *Expert Opin Drug Deliv.* 2012 Nov;9(11):1319-23. doi: 10.1517/17425247.2012.720969. Epub 2012 Aug 30. PubMed PMID: 22931049.

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