

m-PEG12-NHS ester

Chemical Properties

CAS No.:	756525-94-7
Formula:	C30H55NO16
Molecular Weight:	685.76
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-NHS ester is a PEG derivative containing an NHS ester. The hydrophilic PEG spacer increases solubility in aqueous media. The NHS ester can be used to label amine-modified oligonucleotides, the primary amines (-NH ₂) of proteins, and other amine-containing molecules.
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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	1.458 mL	7.291 mL	14.582 mL
5 mM	0.292 mL	1.458 mL	2.916 mL
10 mM	0.146 mL	0.729 mL	1.458 mL
50 mM	0.029 mL	0.146 mL	0.292 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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