

## Hydroxy-PEG12-t-butyl ester

## Chemical Properties

CAS No. :	1186025-29-5
Formula:	C55H110O27
Molecular Weight:	1203.45
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	Hydroxy-PEG12-t-butyl ester is a PEG derivative containing a hydroxyl group and a t-butyl ester. The hydroxyl group enables further derivatization or replacement with other reactive functional groups. Under acidic conditions, the t-butyl protected carboxyl group can be deprotected.
Targets(IC50)	Others

## 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	0.8309 mL	4.1547 mL	8.3094 mL
5 mM	0.1662 mL	0.8309 mL	1.6619 mL
10 mM	0.0831 mL	0.4155 mL	0.8309 mL
50 mM	0.0166 mL	0.0831 mL	0.1662 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

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.

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.

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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