Data Sheet (Cat.No.T16335)

TargetMol

Nonaethylene glycol monododecyl ether

Chemical Properties

CAS No. : 3055-99-0

Formula: C30H62O10

Molecular Weight: 582.81

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	Nonaethylene glycol monododecyl ether (Polidocanol) is a nonionic surfactant and polyethylene glycol (PEG) detergent. It can be used to form initial coalesced O/W emulsion droplets and for protein separation and purification.
Targets(IC50)	Others
In vitro	In vitro incubations with Nonaethylene glycol monododecyl ether typically gave chain lengths that corresponded to those of the isoprenoid moieties in respiratory quinones synthesized in vivo, it displayed by examination of a series of non-ionic PEG detergents with several long-chain E-PDSs from different organisms [2].

Solubility Information

Solubility	DMSO: 250 mg/mL (428.96 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween-80+45% Saline: 3.3 mg/mL (5.66 mM),Sonication is recommended. *Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.*

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.7158 mL	8.5791 mL	17.1583 mL
5 mM	0.3432 mL	1.7158 mL	3.4317 mL
10 mM	0.1716 mL	0.8579 mL	1.7158 mL
50 mM	0.0343 mL	0.1716 mL	0.3432 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

Li C, et al. Oil-in-Water Emulsion Templated and Crystallization-Driven Self-Assembly Formation of Poly(l-lactide)-Polyoxyethylene-Poly(l-lactide) Fibers. Langmuir. 2017 Nov 14;33(45):13060-13067.
Pan JJ, et al. Dependence of the product chain-length on detergents for long-chain E-polyprenyl diphosphate synthases. Biochemistry. 2013 Jul 23;52(29):5002-8.
Zhang W, et al. Comparison of the different types of surfactants for the effect on activity and structure of soybean peroxidase. Langmuir. 2009 Feb 17;25(4):2363-8.