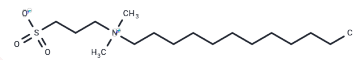


Sulfobetaine-12

Chemical Properties

CAS No. :	14933-08-5
Formula:	C17H37NO3S
Molecular Weight:	335.55
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	Sulfobetaine-12 (Zwittergent 3-12 Detergent) is a zwitterionic surfactant, dispersant and emulsifier commonly used in industry.
Targets(IC50)	Others
In vitro	In cell culture, Sulfobetaine-12 can be used as a surfactant to help reduce the surface tension of liquids and promote uniform cell distribution and growth. It also reduces cell-to-cell adhesion, allowing for easier cell separation and passaging. In enzymatic studies, Sulfobetaine-12 can help stabilize the structure of enzymes to prevent inactivation during storage or experimental procedures. It can prolong the life of an enzyme by providing a mild environment to maintain the active conformation of the enzyme. [1]

Solubility Information

Solubility	DMSO: 29.71 mg/mL (88.54 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: 2 mg/mL (5.96 mM), Sonication is recommended. 10% DMSO+90% Saline: 2.97 mg/mL (8.85 mM), Solution. <i>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.</i>

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.9802 mL	14.9009 mL	29.8018 mL
5 mM	0.596 mL	2.9802 mL	5.9604 mL
10 mM	0.298 mL	1.4901 mL	2.9802 mL
50 mM	0.0596 mL	0.298 mL	0.596 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

Venkatesh K, et al. The effect of detergents on the purified flavin-containing monooxygenase of mouse liver, kidney and lungs. *Gen Pharmacol.* 1991;22(3):549-52.

Nollstadt KH, et al. Potential of the sulfobetaine detergent Zwittergent 3-12 as a desorbing agent in biospecific and bioselective affinity chromatography. *J Chromatogr.* 1989 Dec 29;497:87-100.

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