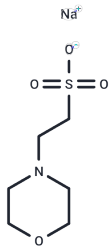
Data Sheet (Cat.No.T40819)

TargetMol

MES Sodium

Chemical Properties



CAS No. : 71119-23-8

Formula: C6H12NNaO4S

Molecular Weight: 217.22

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	MES Sodium is a biological buffer commonly used to prepare solutions with a pH range of 5.5-6.7.
Targets(IC50)	Others

Solubility Information

Solubility	DMSO: 20 mg/mL (92.07 mM),Sonication is recommended. H2O: 20 mg/mL (92.07 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 (9.21 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	4.6036 mL	23.0181 mL	46.0363 mL
5 mM	0.9207 mL	4.6036 mL	9.2073 mL
10 mM	0.4604 mL	2.3018 mL	4.6036 mL
50 mM	0.0921 mL	0.4604 mL	0.9207 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

Miura K. Aquatic risk assessment of 2-sulfonato fatty acid methyl ester sodium salt (MES). J Oleo Sci. 2007;56(3): 123-8.

Kagenishi T, et,al. MES Buffer Affects Arabidopsis Root Apex Zonation and Root Growth by Suppressing Superoxide Generation in Root Apex. Front Plant Sci. 2016 Feb 18;7:79.

Miura K. Aquatic risk assessment of 2-sulfonato fatty acid methyl ester sodium salt (MES). J Oleo Sci. 2007;56(3): 123-8.

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