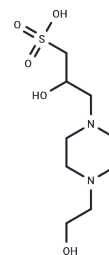


HEPPSO

Chemical Properties

CAS No. :	68399-78-0
Formula:	C ₉ H ₂₀ N ₂ O ₅ S
Molecular Weight:	268.33
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	HEPPSO is an amphoteric ion buffer with a pH range of 7.1-8.5, exhibiting strong binding affinity for copper(II) ions, and is widely used in biochemical experiments.
Targets(IC50)	Others

Solubility Information

Solubility	DMSO: 200 mg/mL (745.35 mM),Sonication is recommended. H ₂ O: 200 mg/mL (745.35 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 (12.3 mM),Sonication is recommended. <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	3.7268 mL	18.6338 mL	37.2675 mL
5 mM	0.7454 mL	3.7268 mL	7.4535 mL
10 mM	0.3727 mL	1.8634 mL	3.7268 mL
50 mM	0.0745 mL	0.3727 mL	0.7454 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

Vasconcelos MT, et, al. Copper(II) complexation properties and surfactant activity of 3-[N, N-bis(2-hydroxyethyl) amino]-2-hydroxypropanesulfonic acid and N-(2-Hydroxyethyl)piperazine-N'-2-hydroxypropanesulfonic acid pH buffers which may affect trace metal speciation in in vitro studies. Anal Biochem. 1998 Dec 15; 265(2): 193-201.

Mash HE, et, al. Complexation of copper by zwitterionic aminosulfonic (good) buffers. Anal Chem. 2003 Feb 1; 75 (3): 671-7.

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