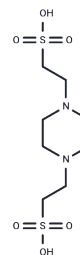


## PIPES

## Chemical Properties

CAS No. :	5625-37-6
Formula:	C <sub>8</sub> H <sub>18</sub> N <sub>2</sub> O <sub>6</sub> S <sub>2</sub>
Molecular Weight:	302.37
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	PIPES (1,4-Piperazinediethanesulfonic acid) is an essential component of buffering agents used in biochemical applications, commonly referred to as PIPES buffer.
Targets(IC50)	Others
In vitro	To prepare the PIPES buffer, dissolve 173 g of 1,4-piperazinediethanesulfonic acid in 1 L of deionized water. Adjust the pH of the solution to 6.8 using sodium hydroxide pellets. This buffer is efficacious in mitigating lipid loss and artifacts induced by glutaraldehyde fixation [1].

## Solubility Information

Solubility	DMSO: < 1 mg/mL (insoluble or slightly soluble) H <sub>2</sub> O: < 1 mg/mL (insoluble) (< 1 mg/ml refers to the product slightly soluble or insoluble)
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## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.3072 mL	16.536 mL	33.0721 mL
5 mM	0.6614 mL	3.3072 mL	6.6144 mL
10 mM	0.3307 mL	1.6536 mL	3.3072 mL
50 mM	0.0661 mL	0.3307 mL	0.6614 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

Jason Moggridge, et al. Sensitive Detection of Immunoglobulin G Stability Using in Real-Time Isothermal Differential Scanning Fluorimetry: Determinants of Protein Stability for Antibody-Based Therapeutics. Technol Cancer Res Treat. 2017 Dec;16(6):997-1005.

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