

## PIPES Disodium

## Chemical Properties

CAS No. :	76836-02-7
Formula:	C <sub>8</sub> H <sub>16</sub> N <sub>2</sub> Na <sub>2</sub> O <sub>6</sub> S <sub>2</sub>
Molecular Weight:	346.332
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) disodium is an amphoteric ion biological buffer agent commonly used to prepare buffers with a pH of 6.1 to 7.5, often employed in cell culture media, protein analysis, and electrophoresis experiments.
Targets(IC50)	Others
In vitro	To prepare the pH PIPES buffer, dissolve 173 g of 1,4-piperazinediethanesulfonic acid in 1 L of deionized water and adjust the pH to 6.8 using sodium hydroxide pellets. This PIPES buffer formulation effectively mitigates lipid loss and artifacts induced by glutaraldehyde fixation [1].

## Solubility Information

Solubility	H <sub>2</sub> O: 50.00 mg/mL (144.37 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.8874 mL	14.4371 mL	28.8742 mL
5 mM	0.5775 mL	2.8874 mL	5.7748 mL
10 mM	0.2887 mL	1.4437 mL	2.8874 mL
50 mM	0.0577 mL	0.2887 mL	0.5775 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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