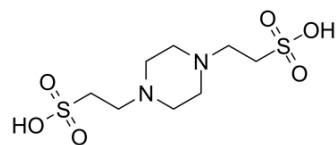


PIPES

Cat. No.:	HY-D0875		
CAS No.:	5625-37-6		
Molecular Formula:	C ₈ H ₁₈ N ₂ O ₆ S ₂		
Molecular Weight:	302.37		
Target:	Others		
Pathway:	Others		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro

H₂O : 5 mg/mL (16.54 mM; ultrasonic and adjust pH to 7 with NaOH)

Concentration	Solvent	Mass		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	3.3072 mL	16.5360 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

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description

PIPES (1,4-Piperazinediethanesulfonic acid) is an important component of PIPES buffer agent used in biochemistry^[1].

In Vitro

To prepare the pH PIPES buffer, 173 g of 1,4-piperazinediethanesulfonic acid are dissolved into 1 L of deionized water. The pH of the PIPES buffer is adjusted to 6.8 by adding pellets of sodium hydroxide.

PIPES buffer can be used to PIPES buffer, it can prevent the glutaraldehyde fixation induced lipid loss and artifacts^[1].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. 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.

Caution: Product has not been fully validated for medical applications. For research use only.

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