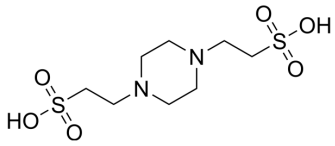
PIPES

Cat. No.:	HY-D0875
CAS No.:	5625-37-6
Molecular Formula:	$C_8H_{18}N_2O_6S_2$
Molecular Weight:	302.37
Target:	Biochemical Assay Reagents
Pathway:	Others
Storage:	Powder -20°C 3 years 4°C 2 years In solvent -80°C 2 years -20°C 1 year



SOLVENT & SOLUBILITY

In Vitro

H_2O : 5 mg/mL (16.54 mM; ultrasonic and adjust pH to 7 with NaOH)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	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.

In Vivo

1. Add each solvent one by one: PBS
   Solubility: 2 mg/mL (6.61 mM); Clear solution; Need ultrasonic

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 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.

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