Proteins

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

2 years

In solvent -80°C 2 years

> -20°C 1 year

Product Data Sheet

SOLVENT & SOLUBILITY

In Vitro

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

	Solvent Mass Concentration	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.

In Vivo

1. Add each solvent one by one: PBS

Solubility: 2 mg/mL (6.61 mM); Clear solution; Need ultrasonic

BIOLOGICAL ACTIVITY

 ${\it PIPES}~(1,4-Piperazine diethane sulfonic~acid)~is~an~important~component~of~PIPES~buffer~agent~used~in~biochemistry~^{[1]}.$ Description

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