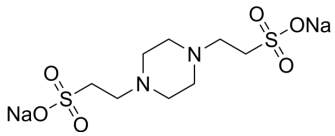
PIPES disodium

Cat. No.:	HY-W040147
CAS No.:	76836-02-7
Molecular Formula:	$C_8H_{16}N_2Na_2O_6S_2$
Molecular Weight:	346.33
Target:	Biochemical Assay Reagents
Pathway:	Others
Storage:	4°C, sealed storage, away from moisture * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)



SOLVENT & SOLUBILITY

In Vitro

H_2O : 100 mg/mL (288.74 mM; Need ultrasonic)

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

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

BIOLOGICAL ACTIVITY

Description

PIPES (1,4-Piperazinediethanesulfonic acid) disodium 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 disodium 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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