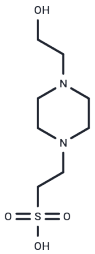
Data Sheet (Cat.No.T8549)

TargetMol

HEPES

Chemical Properties



CAS No. : 7365-45-9

Formula: C8H18N2O4S

Molecular Weight: 238.3

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	HEPES is a zwitterionic sulfonic acid buffering agent, commonly used to uphold a neutral pH of basal medium within cell cultures.HEPES is a potent inducer of lysosome biogenesis.
Targets(IC50)	Others

Solubility Information

Solubility	DMSO: Insoluble, H2O: 250 mg/mL (1049.1 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	4.1964 mL	20.982 mL	41.9639 mL
5 mM	0.8393 mL	4.1964 mL	8.3928 mL
10 mM	0.4196 mL	2.0982 mL	4.1964 mL
50 mM	0.0839 mL	0.4196 mL	0.8393 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

Tol MJ, et al. HEPES activates a MiT/TFE-dependent lysosomal-autophagic gene network in cultured cells: A call for caution. Autophagy. 2018;14(3):437-449.
Suzuki T, et al. Nonvolatile buffer coating of titanium to prevent its biological aging and for drug delivery. Biomaterials. 2010;31(18):4818-4828.

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