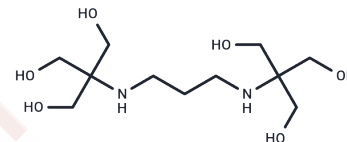


BIS-TRIS propane

Chemical Properties

CAS No. :	64431-96-5
Formula:	C ₁₁ H ₂₆ N ₂ O ₆
Molecular Weight:	282.33
Storage:	Keep away from direct sunlight Powder: -20°C for 3 years In solvent: -80°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small>



Biological Description

Description	BIS-TRIS propane (BTP), a novel multidentate ligand of nickel- and cobalt-based spin clusters, is a metal chelator. BIS-TRIS propane is often used as a zwitterionic buffer for PCR and protein crystallization studies.
Targets(IC50)	Others

Solubility Information

Solubility	DMSO: 22.73 mg/mL (80.51 mM),Sonication is recommended. H ₂ O: 80 mg/mL (283.36 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween-80+45% Saline: 1 mg/mL (3.54 mM),Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.542 mL	17.7098 mL	35.4195 mL
5 mM	0.7084 mL	3.542 mL	7.0839 mL
10 mM	0.3542 mL	1.771 mL	3.542 mL
50 mM	0.0708 mL	0.3542 mL	0.7084 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

K A Eckert, et al. DNA polymerase fidelity and the polymerase chain reaction. PCR Methods Appl. 1991 Aug;1(1): 17-24.

J R Wenner, et al. Buffer effects on EcoRV kinetics as measured by fluorescent staining and digital imaging of plasmid cleavage. Anal Biochem.

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