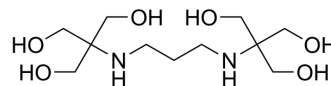


Bis-tris propane

Cat. No.:	HY-126399
CAS No.:	64431-96-5
Molecular Formula:	C ₁₁ H ₂₆ N ₂ O ₆
Molecular Weight:	282.33
Target:	Biochemical Assay Reagents
Pathway:	Others
Storage:	4°C, protect from light * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



SOLVENT & SOLUBILITY

In Vitro

H₂O : 100 mg/mL (354.20 mM; Need ultrasonic)
DMSO : 25 mg/mL (88.55 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent Concentration	Mass		
		1 mg	5 mg	10 mg
	1 mM	3.5420 mL	17.7098 mL	35.4195 mL
	5 mM	0.7084 mL	3.5420 mL	7.0839 mL
	10 mM	0.3542 mL	1.7710 mL	3.5420 mL

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

In Vivo

- Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
Solubility: ≥ 2.5 mg/mL (8.85 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
Solubility: ≥ 2.5 mg/mL (8.85 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil
Solubility: ≥ 2.5 mg/mL (8.85 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

Bis-tris propane (BTP) is a water-soluble buffer substance. Bis-tris propane can be used as a suitable buffer for polymerase chain reaction (PCR). Bis-tris propane can enhance the stability or activity of restriction enzymes^{[1][2]}.

REFERENCES

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

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

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