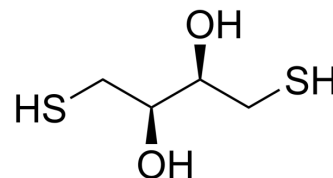


L-Dithiothreitol

Cat. No.:	HY-15917A
CAS No.:	16096-97-2
Molecular Formula:	C ₄ H ₁₀ O ₂ S ₂
Molecular Weight:	154.25
Target:	Biochemical Assay Reagents
Pathway:	Others
Storage:	Powder -20°C 3 years In solvent -80°C 6 months -20°C 1 month



SOLVENT & SOLUBILITY

In Vitro	DMSO : 100 mg/mL (648.30 mM; Need ultrasonic)					
	Preparing Stock Solutions	<div><div>Solvent</div><div>Concentration</div></div>	Mass	1 mg	5 mg	10 mg
		1 mM	6.4830 mL	32.4149 mL	64.8298 mL	
		5 mM	1.2966 mL	6.4830 mL	12.9660 mL	
		10 mM	0.6483 mL	3.2415 mL	6.4830 mL	
Please refer to the solubility information to select the appropriate solvent.						
In Vivo	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.5 mg/mL (16.21 mM); Clear solution					
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (16.21 mM); Clear solution					

BIOLOGICAL ACTIVITY

Description	L-Dithiothreitol (DTT) is a reducing agent commonly used in various biochemical applications to break disulfide bonds in proteins, thereby denaturing proteins or preventing the formation of unwanted aggregates. DTT has a unique chemical property that cleaves the sulfur-sulfur bond in the disulfide bond to form a sulfhydryl group. This makes it a useful tool for protein purification, enzyme assays, and protein structure studies.
In Vitro	L-Dithiothreitol is a biochemical reagent that can be used as a biological material or organic compound for life science related research. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

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

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