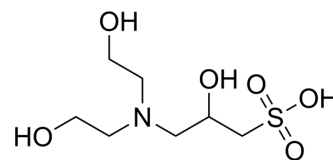


DIPSO

Cat. No.:	HY-D0872		
CAS No.:	68399-80-4		
Molecular Formula:	C ₇ H ₁₇ NO ₆ S		
Molecular Weight:	243.28		
Target:	Biochemical Assay Reagents		
Pathway:	Others		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro	H ₂ O : 166.67 mg/mL (685.10 mM; Need ultrasonic)				
		Solvent Concentration	Mass 1 mg	5 mg	10 mg
	Preparing Stock Solutions	1 mM	4.1105 mL	20.5525 mL	41.1049 mL
		5 mM	0.8221 mL	4.1105 mL	8.2210 mL
10 mM		0.4110 mL	2.0552 mL	4.1105 mL	
Please refer to the solubility information to select the appropriate solvent.					
In Vivo	1. Add each solvent one by one: PBS Solubility: 50 mg/mL (205.52 mM); Clear solution; Need ultrasonic				

BIOLOGICAL ACTIVITY

Description	DIPSO is a biological zwitterionic buffer with the useful pH range from 7.0 to 8.2. DIPSO can interfere meiotic regulation in mouse oocytes. DIPSO also has surfactant activity at 10 mM ^{[1][2]} .
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REFERENCES

- [1]. Downs SM, Mastropolo AM. Culture conditions affect meiotic regulation in cumulus cell-enclosed mouse oocytes. *Mol Reprod Dev.* 1997 Apr;46(4):551-66.
- [2]. M.T.S.D.Vasconcelos, et al. Copper(II) Complexation Properties and Surfactant Activity of 3-[N,N-Bis(2-hydroxyethyl)amino]-2-hydroxypropanesulfonic Acid and N-(2-Hydroxyethyl)piperazine-N'-2-hydroxypropanesulfonic Acid pH Buffers Which May Affect Trace Metal Speciation in *In Vitro* Studies. *Analytical Biochemistry*, Volume 265, Issue 2, 15 December 1998, Pages 193-201

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

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