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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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1,3-Propanediol

Cat. No.:	HY-W017758		
CAS No.:	504-63-2		
Molecular Formula:	C ₃ H ₈ O ₂		
Molecular Weight:	76.09		
Target:	Others		
Pathway:	Others		
Storage:	Pure form	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro	DMSO : 100 mg/mL (1314.23 mM; Need ultrasonic)				
		Solvent Concentration	Mass 1 mg	5 mg	10 mg
	Preparing Stock Solutions	1 mM	13.1423 mL	65.7117 mL	131.4233 mL
		5 mM	2.6285 mL	13.1423 mL	26.2847 mL
10 mM		1.3142 mL	6.5712 mL	13.1423 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 (32.86 mM); Clear solution				
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (32.86 mM); Clear solution				
	3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (32.86 mM); Clear solution				

BIOLOGICAL ACTIVITY

Description	1,3-Propanediol is produced in nature by the fermentation of glycerol in microorganism, which has orally active ^[1] .
In Vivo	1,3-Propanediol (0-1000 mg/kg, i.g., daily, 90 days) has no effects on the clinical condition, body weights, body weight gains, food consumption, organ weights, hematology or serum chemistry parameters of CrI:CD(SD)BR rats ^[2] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

- [1]. Gingell R, et al. Subchronic toxicity study of 1, 3-propanediol administered orally to rats. International journal of toxicology, 2000, 19(1): 27-32.
- [2]. F. Barbirato, et al. Glycerol fermentation by a new 1,3-propanediol-producing microorganism: Enterobacter agglomerans. Applied Microbiology and Biotechnology volume 43, pages 786-793 (1995).
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Caution: Product has not been fully validated for medical applications. For research use only.

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