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Lactitol monohydrate

Cat. No.: HY-B1389

CAS No.: 81025-04-9Molecular Formula: $C_{12}H_{26}O_{12}$ Molecular Weight: 362.33Target: Bacterial

Pathway: Anti-infection

Storage: Powder

-20°C 3 years 4°C 2 years

In solvent -80°C 2 years

-20°C 1 year

Product Data Sheet

SOLVENT & SOLUBILITY

In Vitro

H₂O: 120 mg/mL (331.19 mM; Need ultrasonic) DMSO: 100 mg/mL (275.99 mM; Need ultrasonic)

	Solvent Mass Concentration	1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	2.7599 mL	13.7996 mL	27.5992 mL
	5 mM	0.5520 mL	2.7599 mL	5.5198 mL
	10 mM	0.2760 mL	1.3800 mL	2.7599 mL

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

In Vivo

- Add each solvent one by one: PBS Solubility: 25 mg/mL (69.00 mM); Clear solution; Need ultrasonic
- 2. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: \geq 2.5 mg/mL (6.90 mM); Clear solution
- 3. Add each solvent one by one: 10% DMSO >> 90% (20% SBE- β -CD in saline) Solubility: \geq 2.5 mg/mL (6.90 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (6.90 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

Lactitol monohydrate is a disaccharide analogue of lactulose. It has been widely used in the treatment of constipation & hepatic encephalopathy. Lactitol is sugar alcohol used as replacement sweeteners.

REFERENCES				
[1]. Yamamoto Y, et al. Continuo 610.	ous combined intake of pol	ydextrose and lactitol stimulates	cecal fermentation and salivary IgA	secretion in rats. J Oral Sci. 2017;59(4):603-
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