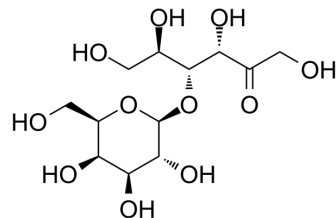


Lactulose

Cat. No.:	HY-B1172
CAS No.:	4618-18-2
Molecular Formula:	C ₁₂ H ₂₂ O ₁₁
Molecular Weight:	342
Target:	Endogenous Metabolite; Bacterial
Pathway:	Metabolic Enzyme/Protease; Anti-infection
Storage:	4°C, sealed storage, away from moisture * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)



SOLVENT & SOLUBILITY

In Vitro

H₂O : ≥ 100 mg/mL (292.40 mM)
 DMSO : 25 mg/mL (73.10 mM; Need ultrasonic)
 * "≥" means soluble, but saturation unknown.

Preparing Stock Solutions	Solvent Concentration	Mass		
		1 mg	5 mg	10 mg
	1 mM	2.9240 mL	14.6199 mL	29.2398 mL
	5 mM	0.5848 mL	2.9240 mL	5.8480 mL
	10 mM	0.2924 mL	1.4620 mL	2.9240 mL

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

In Vivo

- Add each solvent one by one: PBS
Solubility: 100 mg/mL (292.40 mM); Clear solution; Need ultrasonic
- Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
Solubility: ≥ 2.5 mg/mL (7.31 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
Solubility: ≥ 2.5 mg/mL (7.31 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil
Solubility: ≥ 2.5 mg/mL (7.31 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

Lactulose (4-O-β-D-Galactopyranosyl-D-fructose) is a poorly absorbed sugar that can be used to study constipation and hepatic encephalopathy. The drug generally begins to take effect 8 to 12 hours after administration, but it may take two days to improve constipation.

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA