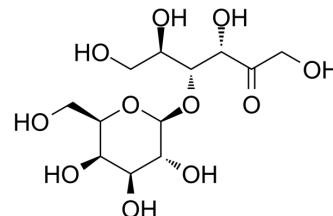


Lactulose

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.

	Solvent Concentration	Mass	1 mg	5 mg	10 mg
Preparing Stock Solutions	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

1. Add each solvent one by one: PBS
Solubility: 100 mg/mL (292.40 mM); Clear solution; Need ultrasonic
2. 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
3. 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
4. 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.

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