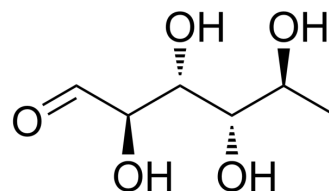


Rhamnose

Cat. No.:	HY-N1420		
CAS No.:	3615-41-6		
Molecular Formula:	C ₆ H ₁₂ O ₅		
Molecular Weight:	164.16		
Target:	Endogenous Metabolite		
Pathway:	Metabolic Enzyme/Protease		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	2 years
		-20°C	1 year



SOLVENT & SOLUBILITY

In Vitro

DMSO : 100 mg/mL (609.16 mM; Need ultrasonic)
 H₂O : 100 mg/mL (609.16 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent		Mass		
	Concentration		1 mg	5 mg	10 mg
	1 mM		6.0916 mL	30.4581 mL	60.9162 mL
	5 mM		1.2183 mL	6.0916 mL	12.1832 mL
	10 mM		0.6092 mL	3.0458 mL	6.0916 mL

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

In Vivo

- Add each solvent one by one: PBS
Solubility: 50 mg/mL (304.58 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 (15.23 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
Solubility: ≥ 2.5 mg/mL (15.23 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil
Solubility: ≥ 2.5 mg/mL (15.23 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

Rhamnose (L-Rhamnose) is a monosaccharide found in plants and bacteria. Rhamnose-conjugated immunogens is used in immunotherapies^[1]. Rhamnose crosses the epithelia via the transcellular pathway and acts as a marker of intestinal absorption^[2].

REFERENCES

- [1]. Chen W, et al. L-rhamnose antigen: a promising alternative to α -gal for cancer immunotherapies. ACS Chem Biol. 2011 Feb 18;6(2):185-91.
- [2]. Zuhl MN, et al. Effects of oral glutamine supplementation on exercise-induced gastrointestinal permeability and tight junction protein expression. J Appl Physiol (1985). 2014 Jan 15;116(2):183-91.
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Caution: Product has not been fully validated for medical applications. For research use only.

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