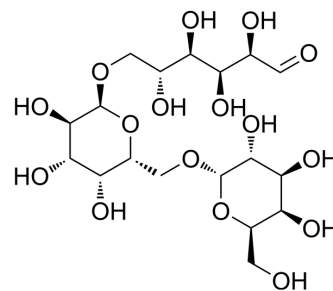


Manninotriose

Cat. No.:	HY-N0913		
CAS No.:	13382-86-0		
Molecular Formula:	C ₁₈ H ₃₂ O ₁₆		
Molecular Weight:	504.44		
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 (198.24 mM; Need ultrasonic)
 H₂O : 83.3 mg/mL (165.13 mM; Need ultrasonic and warming)

	Solvent Concentration	Mass		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	1.9824 mL	9.9120 mL	19.8240 mL
	5 mM	0.3965 mL	1.9824 mL	3.9648 mL
	10 mM	0.1982 mL	0.9912 mL	1.9824 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 (198.24 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 (4.96 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
Solubility: ≥ 2.5 mg/mL (4.96 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil
Solubility: ≥ 2.5 mg/mL (4.96 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

Manninotriose is a novel and important player in the RFO(Raffinose family oligosaccharides) metabolism of red dead deadnettle; potential to improve the side effects of MTX for ALL treatment.

IC₅₀ & Target

Human Endogenous Metabolite

REFERENCES

- [1]. dos Santos R, et al. Manninotriose is a major carbohydrate in red deadnettle (*Lamium purpureum*, Lamiaceae). *Ann Bot.* 2013 Mar;111(3):385-93.
- [2]. Hsiao YL, et al. Treatment of acute lymphoblastic leukemia from traditional chinese medicine. *Evid Based Complement Alternat Med.* 2014;2014:601064.
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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