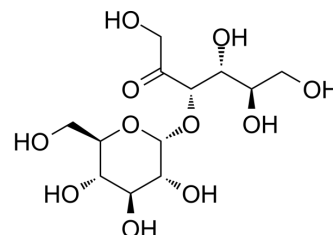


Turanose

Cat. No.:	HY-113334
CAS No.:	547-25-1
Molecular Formula:	C ₁₂ H ₂₂ O ₁₁
Molecular Weight:	342.3
Target:	Endogenous Metabolite
Pathway:	Metabolic Enzyme/Protease
Storage:	4°C, sealed storage, away from moisture and light * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture and light)



SOLVENT & SOLUBILITY

In Vitro	H ₂ O : ≥ 130 mg/mL (379.78 mM) * "≥" means soluble, but saturation unknown.				
		Solvent Concentration	Mass 1 mg	5 mg	10 mg
	Preparing Stock Solutions	1 mM	2.9214 mL	14.6071 mL	29.2141 mL
		5 mM	0.5843 mL	2.9214 mL	5.8428 mL
10 mM		0.2921 mL	1.4607 mL	2.9214 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 (292.14 mM); Clear solution; Need ultrasonic				

BIOLOGICAL ACTIVITY

Description	Turanose is an isomer of Sucrose that naturally exists in honey. Turanose has anti-inflammatory and regulates adipogenesis effect. Turanose has potential for obesity and related chronic diseases research ^{[1][2]} .
IC₅₀ & Target	Human Endogenous Metabolite
In Vitro	Turanose (50%-100%, 24 h) inhibits LPS (50 ng/mL) induced NO production and the levels of iNOS expression in Raw 264.7 cells ^[1] . Turanose (50%-100%, 2 days) reduces lipid accumulation in 3T3-L1 cells ^[2] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Park MO, et, al. Enzymatic Process for High-Yield Turanose Production and Its Potential Property as an Adipogenesis Regulator. J Agric Food Chem. 2016 Jun 15;64(23):4758-64.

[2]. Chung JY, et, al. Regulation of Inflammation by Sucrose Isomer, Turanose, in Raw 264.7 Cells. J Cancer Prev. 2017 Sep;22(3):195-201.

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

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