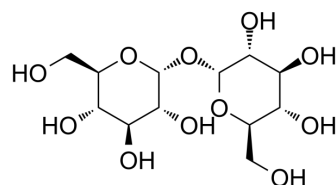


D-(+)-Trehalose

Cat. No.:	HY-N1132
CAS No.:	99-20-7
Molecular Formula:	C ₁₂ H ₂₂ O ₁₁
Molecular Weight:	342.3
Target:	Endogenous Metabolite
Pathway:	Metabolic Enzyme/Protease
Storage:	4°C, stored under nitrogen * In solvent : -80°C, 6 months; -20°C, 1 month (stored under nitrogen)



SOLVENT & SOLUBILITY

In Vitro	H ₂ O : 250 mg/mL (730.35 mM; Need ultrasonic)					
	Preparing Stock Solutions	Solvent Concentration	Mass			
			1 mg	5 mg	10 mg	
			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	D-(+)-Trehalose, which is widespread, can be used as a food ingredient and pharmaceutical excipient.	
IC ₅₀ & Target	Microbial Metabolite	Human Endogenous Metabolite

CUSTOMER VALIDATION

- Microchemical Journal. 2024 Jun, 201, 110666.
- Ren Fail. 2024 Dec;46(1):2338933.
- J Ocul Pharmacol Ther. 2022 Jun;38(5):331-338.

See more customer validations on www.MedChemExpress.com

REFERENCES

[1]. Megarry AJ, et al. Amorphous trehalose dihydrate by cryogenic milling. Carbohydr Res. 2011 Jun 1;346(8):1061-4.

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

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