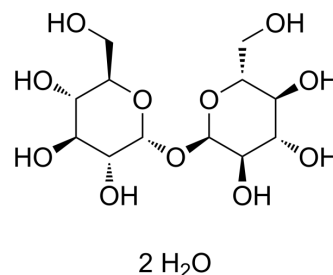


D-(+)-Trehalose dihydrate

Cat. No.:	HY-N1132A
CAS No.:	6138-23-4
Molecular Formula:	C ₁₂ H ₂₆ O ₁₃
Molecular Weight:	378.33
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 : 150 mg/mL (396.48 mM; Need ultrasonic)					
	Preparing Stock Solutions	Solvent	Mass	1 mg	5 mg	10 mg
		Concentration				
		1 mM		2.6432 mL	13.2160 mL	26.4320 mL
		5 mM		0.5286 mL	2.6432 mL	5.2864 mL
	10 mM		0.2643 mL	1.3216 mL	2.6432 mL	
Please refer to the solubility information to select the appropriate solvent.						
In Vivo	1. Add each solvent one by one: PBS Solubility: 50 mg/mL (132.16 mM); Clear solution; Need ultrasonic					

BIOLOGICAL ACTIVITY

Description	D-(+)-Trehalose dihydrate, isolated from <i>Saccharomyces cerevisiae</i> , can be used as a food ingredient and pharmaceutical excipient.	
IC₅₀ & Target	Microbial Metabolite	Human Endogenous Metabolite
In Vitro	Trehalose dihydrate is a safe, naturally occurring disaccharide used as a food ingredient and pharmaceutical excipient ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.	

CUSTOMER VALIDATION

- Microchemical Journal. 2024 Jun, 201, 110666.

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

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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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