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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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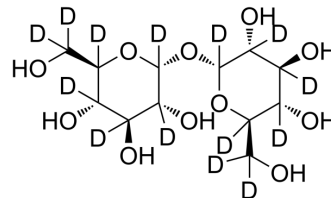
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D-(+)-Trehalose-d₁₄

Cat. No.:	HY-N1132S
CAS No.:	2028292-31-9
Molecular Formula:	C ₁₂ H ₈ D ₁₄ O ₁₁
Molecular Weight:	356.38
Target:	Endogenous Metabolite; Isotope-Labeled Compounds
Pathway:	Metabolic Enzyme/Protease; Others
Storage:	Powder -20°C 3 years 4°C 2 years In solvent -80°C 6 months -20°C 1 month



SOLVENT & SOLUBILITY

In Vitro

H₂O : 250 mg/mL (701.50 mM; Need ultrasonic and warming)

	Solvent Concentration	Mass	1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM		2.8060 mL	14.0300 mL	28.0599 mL
	5 mM		0.5612 mL	2.8060 mL	5.6120 mL
	10 mM		0.2806 mL	1.4030 mL	2.8060 mL

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

BIOLOGICAL ACTIVITY

Description

D-(+)-Trehalose-d₁₄ is the deuterium labeled D-(+)-Trehalose. D-(+)-Trehalose, isolated from *Saccharomyces cerevisiae*, can be used as a food ingredient and pharmaceutical excipi[1][2].

In Vitro

Stable heavy isotopes of hydrogen, carbon, and other elements have been incorporated into drug molecules, largely as tracers for quantitation during the drug development process. Deuteration has gained attention because of its potential to affect the pharmacokinetic and metabolic profiles of drugs^[1].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Russak EM, et al. Impact of Deuterium Substitution on the Pharmacokinetics of Pharmaceuticals. *Ann Pharmacother*. 2019 Feb;53(2):211-216.

[2]. 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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