



LKT Laboratories, Inc.

D(+)-Trehalose Dihydrate

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Product Information

Product ID T6817

CAS No. 6138-23-4

Chemical Name

Synonym

Formula $C_{12}H_{22}O_{11} \cdot 2H_2O$

Formula Wt. 378.33

Melting Point

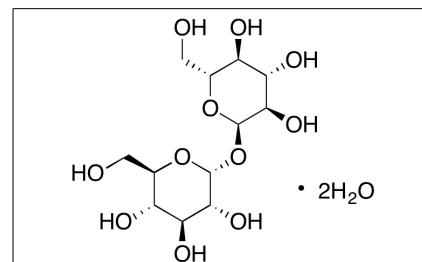
Purity $\geq 98\%$

Solubility Soluble in water (100 mg/ml), and hot alcohol.

Store Temp Ambient

Ship Temp Ambient

Description Trehalose is a natural α -linked disaccharide composed of α -glucose units that is found in plants, animals, bacteria, and fungi. Trehalose has high water retention capabilities and can be used to form gels or prevent desiccation. Derivatives of trehalose exhibit anticancer, anti-metastatic, and neuromodulatory activities; they may also induce autophagy and modulate activity of toll-like receptors (TLRs).



Pricing and Availability

Bulk quantities available upon request

Product ID	Size	List Price
T6817	1 g	\$32.40
T6817	5 g	\$86.80
T6817	25 g	\$185.20

References Williams B, Njaci I, Moghaddam L, et al. Trehalose Accumulation Triggers Autophagy during Plant Desiccation. PLoS Genet. 2015 Dec 3;11(12):e1005705. PMID: 26633550.

Jiang YL, Li SX, Liu YJ, et al. Synthesis and Evaluation of Trehalose-Based Compounds as Novel Inhibitors of Cancer Cell Migration and Invasion. Chem Biol Drug Des. 2015 Nov;86(5):1017-29. PMID: 25855371.

Rodriguez Lavado J, Sestito SE, Cighetti R, et al. Trehalose- and glucose-derived glycoamphiphiles: small-molecule and nanoparticle Toll-like receptor 4 (TLR4) modulators. J Med Chem. 2014 Nov 13;57(21):9105-23. PMID: 25268544.

Caution: This product is intended for laboratory and research use only. It is not for human or drug use.