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Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

SZABO-SCANDIC HandelsgmbH

Quellenstraße 110, A-1100 Wien

T. +43(0)1 489 3961-0

F. +43(0)1 489 3961-7

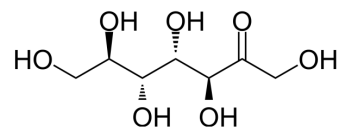
mail@szabo-scandic.com

www.szabo-scandic.com

[linkedin.com/company/szaboscandic](https://www.linkedin.com/company/szaboscandic) 

D-Mannoheptulose

Cat. No.:	HY-U00462
CAS No.:	3615-44-9
Molecular Formula:	C ₇ H ₁₄ O ₇
Molecular Weight:	210.18
Target:	Others
Pathway:	Others
Storage:	-20°C, stored under nitrogen * In solvent : -80°C, 6 months; -20°C, 1 month (stored under nitrogen)



SOLVENT & SOLUBILITY

In Vitro	DMSO : 100 mg/mL (475.78 mM; Need ultrasonic)				
		Solvent Concentration	Mass 1 mg	5 mg	10 mg
	Preparing Stock Solutions	1 mM	4.7578 mL	23.7891 mL	47.5783 mL
		5 mM	0.9516 mL	4.7578 mL	9.5157 mL
		10 mM	0.4758 mL	2.3789 mL	4.7578 mL
Please refer to the solubility information to select the appropriate solvent.					
In Vivo	<ol style="list-style-type: none"> Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.5 mg/mL (11.89 mM); Clear solution Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (11.89 mM); Clear solution Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (11.89 mM); Clear solution 				

BIOLOGICAL ACTIVITY

Description	D-Mannoheptulose is a major non-structural carbohydrate in avocado. D-mannoheptulose is a specific inhibitor of D-glucose phosphorylation. D-Mannoheptulose can block insulin release and utilization of carbohydrate in rat ^{[1][2][3]} .
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REFERENCES

[1]. D-mannoheptulose and perseitol in 'Hass' avocado: Metabolism in seed and mesocarp tissue. South African Journal of Botany. 2012 Mar; 79:159-165.

[2]. Courtois P, et al. D-mannoheptulose phosphorylation by hexokinase isoenzymes. Int J Mol Med. 2001 Apr;7(4):359-63.

[3]. Frenkel G, et al. Metabolic effects of insulin blockade by D-mannoheptulose in the sand rat (*Psammomys obesus*) and the rat. *Gen Comp Endocrinol*. 1972 Oct;19(2):341-4.

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA