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Produktinformation

- Forschungsprodukte & Biochemikalien
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- Diagnostik & molekulare Diagnostik
- Laborgeräte & Service

Weitere Information auf den folgenden Seiten!
See the following pages for more information!

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

D-Mannoheptulose

Cat. No.: HY-U00462

CAS No.: 3615-44-9

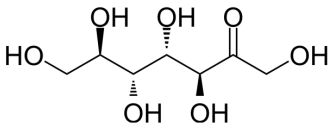
Molecular Formula: $C_7H_{14}O_7$

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)

Preparing Stock Solutions	Mass / Solvent / Concentration	1 mg	5 mg	10 mg
	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

1. 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
2. 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
3. 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].

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.

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