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Produktinformation



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Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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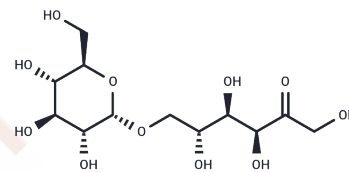
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PALATINOSE

Chemical Properties

CAS No. : 13718-94-0
 Formula: C₁₂H₂₂O₁₁
 Molecular Weight: 342.3
 Appearance: no data available
 Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year



Biological Description

Description	PALATINOSE (TNP-470) is a natural occurring disaccharide composed of alpha-1,6-linked glucose and fructose. PALATINOSE has a beneficial effect on liver metabolic functions and might therefore be a good substitute for sucrose as a sweetener.
Targets(IC50)	Others
In vivo	Compared with the mice fed the sucrose diet, the palatinose diet resulted in lower serum glucose, insulin, and total cholesterol levels, as well as lower expression of several lipogenesis-related genes and proteins. Histological analysis of hepatic cells of palatinose-fed mice showed normal morphology. In conclusion, palatinose intake results in lower hepatic lipogenesis and better cholesterol homeostasis than the effects from sucrose.

Solubility Information

Solubility	DMSO: 60 mg/ml (175.28 mM) (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.9214 mL	14.6071 mL	29.2141 mL
5 mM	0.5843 mL	2.9214 mL	5.8428 mL
10 mM	0.2921 mL	1.4607 mL	2.9214 mL
50 mM	0.0584 mL	0.2921 mL	0.5843 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Reference

Hwang D, Park HR, Lee SJ, Kim HW, Kim JH, Shin KS. Oral administration of palatinose vs sucrose improves hyperglycemia in normal C57BL/6J mice. *Nutr Res.* 2018 Nov;59:44-52.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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