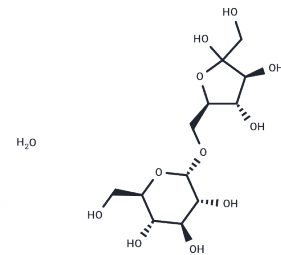


Palatinose hydrate

Chemical Properties

CAS No. :	343336-76-5
Formula:	C ₁₂ H ₂₄ O ₁₂
Molecular Weight:	360.31
Storage:	Pure form: -20°C for 3 years In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA.



Biological Description

Description	Palatinose hydrate (6-O-α-D-Glucopyranosyl-D-fructose, Isoma) is a disaccharide having an α(1→6) linkage between D-glucose and D-fructose and is similar to sucrose in its physicochemical properties. It is produced from sucrose in some bacteria by the action of sucrose isomerase. In mammalian gut, palatinose is hydrolyzed and absorbed much more slowly than sucrose.
Targets(IC50)	Endogenous Metabolite

Solubility Information

Solubility	DMSO: 22.5 mg/mL (62.45 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween-80+45% Saline: 2 mg/mL (5.55 mM), Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.7754 mL	13.8769 mL	27.7539 mL
5 mM	0.5551 mL	2.7754 mL	5.5508 mL
10 mM	0.2775 mL	1.3877 mL	2.7754 mL
50 mM	0.0555 mL	0.2775 mL	0.5551 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.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Lina, B., Jonker, D., & Kozianowski, G. (2002). Isomaltulose (Palatinose®): a review of biological and toxicological studies. *Food And Chemical Toxicology*, 40(10), 1375-1381. doi: 10.1016/s0278-6915(02)00105-9

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