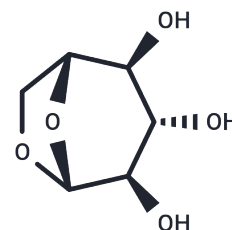


Levoglucosan

Chemical Properties

CAS No. :	498-07-7
Formula:	C ₆ H ₁₀ O ₅
Molecular Weight:	162.14
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA.



Biological Description

Description	Levoglucosan (1,6-anhydro-β-D-Glucose) is an anhydrohexose that is the 1,6-anhydro-derivative of beta-D-glucopyranose. It is formed from the pyrolysis of carbohydrates, such as starch and cellulose. Levoglucosan can also be utilized in the synthesis of chiral polymers such as unhydrolysable glucose polymers. Levoglucosan is also produced via caramelization of sugar. Consumption of caramel or caramel-containing sweets can lead to a short-term 5X increase in urinary levels of levoglucosan (from 20 μM/mM creatinine to 100 μM/mM creatinine).
Targets(IC50)	Endogenous Metabolite

Solubility Information

Solubility	DMSO: 55 mg/mL (339.21 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 (12.34 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	6.1675 mL	30.8375 mL	61.6751 mL
5 mM	1.2335 mL	6.1675 mL	12.335 mL
10 mM	0.6168 mL	3.0838 mL	6.1675 mL
50 mM	0.1234 mL	0.6168 mL	1.2335 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

Migliaccio CT, et al. Urinary levoglucosan as a biomarker of wood smoke exposure: observations in a mouse model and in children. Environ Health Perspect. 2009 Jan;117(1):74-9.

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