Inhibitors

Product Data Sheet

α-Lactose hydrate

Cat. No.: HY-W087904

CAS No.: 5989-81-1

 $C_{12}H_{24}O_{12}$

Molecular Weight: 360

Molecular Formula:

Others Target:

Pathway: Others Storage:

Powder -20°C 3 years

2 years

-80°C In solvent 6 months

> -20°C 1 month

 H_2O

SOLVENT & SOLUBILITY

In Vitro

DMSO: 100 mg/mL (277.78 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent Mass Concentration	1 mg	5 mg	10 mg
	1 mM	2.7778 mL	13.8889 mL	27.7778 mL
	5 mM	0.5556 mL	2.7778 mL	5.5556 mL
	10 mM	0.2778 mL	1.3889 mL	2.7778 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 (6.94 mM); Clear solution
- 2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (6.94 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

 α -Lactose (hydrate) (α -D-Lactose (hydrate)) is the principal carbohydrate in the milk of most mammals. α -Lactose (hydrate) consists of glucose and galactose and exists in the form of two anomers, α and β . α -Lactose (hydrate) has many uses in the food and pharmaceutical industries, such as a free-flowing or agglomerating agent, a diluent for pigments, flavors, or enzymes^{[1][2][3]}.

REFERENCES

[1]. Schuck, et al. Lactose crystallization: determination of α -lactose monohydrate in spray-dried dairy products. (2002).

[2]. Johnson J M, et al. Lactose	e; Encyclopedia of Food Scie	ences and Nutrition[J]. 2003.		
			nedical applications. For research	
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