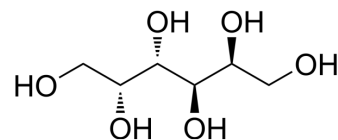


Dulcite

Cat. No.:	HY-Y0418		
CAS No.:	608-66-2		
Molecular Formula:	C ₆ H ₁₄ O ₆		
Molecular Weight:	182.17		
Target:	Endogenous Metabolite		
Pathway:	Metabolic Enzyme/Protease		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : 25 mg/mL (137.23 mM; Need ultrasonic)
 H₂O : ≥ 25 mg/mL (137.23 mM)
 * "≥" means soluble, but saturation unknown.

Preparing Stock Solutions	Solvent Concentration	Mass		
		1 mg	5 mg	10 mg
	1 mM	5.4894 mL	27.4469 mL	54.8938 mL
	5 mM	1.0979 mL	5.4894 mL	10.9788 mL
	10 mM	0.5489 mL	2.7447 mL	5.4894 mL

Please refer to the solubility information to select the appropriate solvent.

In Vivo

- Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
Solubility: ≥ 2.5 mg/mL (13.72 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
Solubility: ≥ 2.5 mg/mL (13.72 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil
Solubility: ≥ 2.5 mg/mL (13.72 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

Dulcite is a sugar alcohol with a slightly sweet taste which is a metabolic breakdown product of galactose.

IC₅₀ & Target

Human Endogenous Metabolite	Human Endogenous Metabolite
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REFERENCES

[1]. Alloussi S, et al. Effect of 5% galactose diet on galactose and dulcitol in plasma and lens of male and female pigs. Ann Nutr Metab. 1989;33(6):323-9.

Caution: Product has not been fully validated for medical applications. For research use only.

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