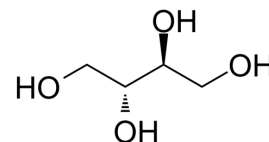


## meso-Erythritol

Cat. No.:	HY-100551
CAS No.:	149-32-6
Molecular Formula:	C <sub>4</sub> H <sub>10</sub> O <sub>4</sub>
Molecular Weight:	122.12
Target:	Endogenous Metabolite
Pathway:	Metabolic Enzyme/Protease
Storage:	-20°C, stored under nitrogen * In solvent : -80°C, 6 months; -20°C, 1 month (stored under nitrogen)



Relative stereochemistry

### SOLVENT & SOLUBILITY

#### In Vitro

DMSO : 100 mg/mL (818.87 mM; Need ultrasonic)  
 H<sub>2</sub>O : ≥ 100 mg/mL (818.87 mM)  
 \* "≥" means soluble, but saturation unknown.

Preparing Stock Solutions	Solvent Concentration	Mass		
		1 mg	5 mg	10 mg
	1 mM	8.1887 mL	40.9433 mL	81.8867 mL
	5 mM	1.6377 mL	8.1887 mL	16.3773 mL
	10 mM	0.8189 mL	4.0943 mL	8.1887 mL

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

#### In Vivo

- Add each solvent one by one: PBS  
Solubility: 100 mg/mL (818.87 mM); Clear solution; Need ultrasonic
- Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline  
Solubility: ≥ 2.5 mg/mL (20.47 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)  
Solubility: ≥ 2.5 mg/mL (20.47 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil  
Solubility: ≥ 2.5 mg/mL (20.47 mM); Clear solution

### BIOLOGICAL ACTIVITY

#### Description

meso-Erythritol is a sugar alcohol that occurs naturally in a variety of foods (e.g., pear, watermelon), is 60-80% as sweet as sucrose, and is an approved low-calorie sweetener food additive<sup>[1]</sup>.

#### IC<sub>50</sub> & Target

Human Endogenous Metabolite

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## REFERENCES

[1]. Hootman KC, et al. Erythritol is a pentose-phosphate pathway metabolite and associated with adiposity gain in young adults. Proc Natl Acad Sci U S A. 2017 May 23;114(21):E4233-E4240.

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

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