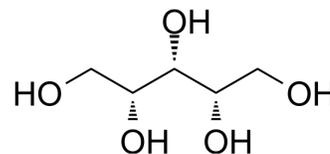


Xylitol

Cat. No.:	HY-N0538												
CAS No.:	87-99-0												
Molecular Formula:	C ₅ H ₁₂ O ₅												
Molecular Weight:	152.15												
Target:	Autophagy; Endogenous Metabolite; Bacterial												
Pathway:	Autophagy; Metabolic Enzyme/Protease; Anti-infection												
Storage:	<table border="0"> <tr> <td>Powder</td> <td>-20°C</td> <td>3 years</td> </tr> <tr> <td></td> <td>4°C</td> <td>2 years</td> </tr> <tr> <td>In solvent</td> <td>-80°C</td> <td>2 years</td> </tr> <tr> <td></td> <td>-20°C</td> <td>1 year</td> </tr> </table>	Powder	-20°C	3 years		4°C	2 years	In solvent	-80°C	2 years		-20°C	1 year
Powder	-20°C	3 years											
	4°C	2 years											
In solvent	-80°C	2 years											
	-20°C	1 year											



SOLVENT & SOLUBILITY

In Vitro

DMSO : 130 mg/mL (854.42 mM; Need ultrasonic)
 H₂O : 110 mg/mL (722.97 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent Concentration	Mass		
		1 mg	5 mg	10 mg
	1 mM	6.5725 mL	32.8623 mL	65.7246 mL
	5 mM	1.3145 mL	6.5725 mL	13.1449 mL
	10 mM	0.6572 mL	3.2862 mL	6.5725 mL

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

In Vivo

- Add each solvent one by one: PBS
Solubility: 50 mg/mL (328.62 mM); Clear solution; Need ultrasonic
- Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
Solubility: ≥ 3.25 mg/mL (21.36 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
Solubility: ≥ 3.25 mg/mL (21.36 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil
Solubility: ≥ 3.25 mg/mL (21.36 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

Xylitol can be classified as polyols and sugar alcohols.

IC₅₀ & Target

Human Endogenous Metabolite

REFERENCES

[1]. <http://en.wikipedia.org/wiki/Xylitol>

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

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