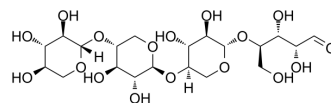


Xylotetraose

Cat. No.:	HY-N6840
CAS No.:	22416-58-6
Molecular Formula:	C ₂₀ H ₃₄ O ₁₇
Molecular Weight:	546.47
Target:	Others
Pathway:	Others
Storage:	4°C, protect from light * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



SOLVENT & SOLUBILITY

In Vitro	DMSO : 100 mg/mL (182.99 mM; Need ultrasonic)					
	Preparing Stock Solutions	Solvent Concentration	Mass	1 mg	5 mg	10 mg
		1 mM		1.8299 mL	9.1496 mL	18.2993 mL
		5 mM		0.3660 mL	1.8299 mL	3.6599 mL
		10 mM		0.1830 mL	0.9150 mL	1.8299 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 (4.57 mM); Clear solution					
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (4.57 mM); Clear solution					
	3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (4.57 mM); Clear solution					

BIOLOGICAL ACTIVITY

Description	Xylotetraose is a hydrolysis product of Xylan ^[1] . Xylan is a polysaccharide made from units of xylose and contains predominantly β-D-xylose units linked as in cellulose ^[2] . Xylotetraose can be used for enzyme biochemical analysis ^{[1][3][4]} .
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REFERENCES

[1]. Kamble RD, et al. Isolation, purification, and characterization of xylanase produced by a new species of bacillus in solid state fermentation. Int J Microbiol. 2012;2012:683193.

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- [2]. Martinez-Abad A, et al. Regular Motifs in Xylan Modulate Molecular Flexibility and Interactions with Cellulose Surfaces. *Plant Physiol.* 2017 Oct 25. pii: pp.01184.2017.
- [3]. Laitinen T, et al. MM-PBSA free energy analysis of endo-1,4-xylanase II (XynII)-substrate complexes: binding of the reactive sugar in a skew boat and chair conformation. *Org Biomol Chem.* 2003 Oct 21;1(20):3535-40.
- [4]. Cervera Tison M, et al. Molecular determinants of substrate and inhibitor specificities of the *Penicillium griseofulvum* family 11 xylanases. *Biochim Biophys Acta.* 2009 Mar;1794(3):438-45.
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Caution: Product has not been fully validated for medical applications. For research use only.