

Xylan

Cat. No.:	HY-107846		
CAS No.:	9014-63-5		
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

Xylan

SOLVENT & SOLUBILITY

In Vitro	<p>H₂O : 110 mg/mL (Need ultrasonic)</p> <p>DMSO : 100 mg/mL (Need ultrasonic)</p>
In Vivo	<ol style="list-style-type: none"> Add each solvent one by one: PBS Solubility: 100 mg/mL (Infinity 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 (Infinity mM); Clear solution Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (Infinity mM); Clear solution Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (Infinity mM); Clear solution

BIOLOGICAL ACTIVITY

Description	Xylan represents the main hemicellulose component in the secondary plant cell walls of flowering plants. Xylan is a polysaccharide made from units of xylose and contains predominantly β-D-xylose units linked as in cellulose ^[1] .
In Vitro	<p>Xylan is a major plant polysaccharide present in secondary walls of tracheary elements and fibers as well as in primary walls of parenchyma cells in grasses. It is composed of a linear chain of β-1,4-linked xylosyl residues that are often decorated with 2-O-linked glucuronic acid (GlcA)/methylated glucuronic acid (MeGlcA)^[2].</p> <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p>

CUSTOMER VALIDATION

- ACS Sustain Chem Eng. 2022.

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REFERENCES

- [1]. 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.
- [2]. Zhong R, et al. Regiospecific Acetylation of Xylan is Mediated by a Group of DUF231-Containing O-Acetyltransferases. *Plant Cell Physiol.* 2017;58(12):2126-2138.
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Caution: Product has not been fully validated for medical applications. For research use only.

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