

Data Sheet

Product Name:	Xylan
Cat. No.:	CS-8121
CAS No.:	9014-63-5
Target:	Endogenous Metabolite
Pathway:	Metabolic Enzyme/Protease
Solubility:	H ₂ O : 110 mg/mL (ultrasonic); DMSO : 100 mg/mL (ultrasonic)

Xylan

BIOLOGICAL ACTIVITY:

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*: 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].

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.

CAIndexNames:

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SMILES:

[Xylan]

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

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