

Product Information

Insulin agent, Xylan-insulin, Purity $\geq 95\%$

Cat. No.: X25-05-YM803

Size: 100 mg; 250 mg; 500 mg; 1 g; 5 g

Synonym: Xylan-insulin; Insulin-xylan

This product is for research use only and is not intended for diagnostic use.

Product Information

Description	The insulin-xylan conjugate demonstrates a progressive biomolecular design where the protein's physiological functions are augmented by xylan's β -1,4-xylose framework from plant cell walls. This hybrid system benefits from the polysaccharide's natural water solubility and ecological degradability.
Glycan Name	Xylan
Glycan Structure	Its glycan structure is a linear backbone of β -1,4-linked D-xylose residues with side-chain substitutions including α -linked arabinofuranose, glucuronic acid/4-O-methyl-glucuronic acid, and acetyl groups at O-2 or O-3 positions.
Source	Chemical synthesis
Functional Group	Insulin
Form	Solid or powder
Purity	$\geq 95\%$
Impurities	No visible impurities to the naked eye.
Solubility	This product is soluble in most organic solvents, such as DCM, DMF, DMSO, and THF, and exhibits excellent solubility in water.
Identity	Confirmed by NMR.
Stability	It is stable under its storage temperature.
Quality Level	Research grade
Applications	Xylan-insulin can be used for its potential to analyze glucose-dependent aggregation behavior in polysaccharide-protein hybrid systems.
Storage	Store at -20°C , protect from light and moisture.