CD BioGlyco
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Product Information

Amine agent, Xylan-PEG-NH_2, Purity ≥95%

Cat. No.: X25-05-YM1031

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

Synonym: Xylan-PEG-NH_2; Amine-PEG-xylan

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

Product Information

Description	Xylan-PEG-NH_2 creates a tri-component molecular composite formulated to integrate the renewable structural matrix of xylan—a β-1,4-xylose-based biopolymer derived from plant hemicellulose decomposition—with amine group's biochemical characteristics *via* PEG-mediated bridging. The carbohydrate framework ensures water compatibility and mucosal adhesion capabilities that optimize biological material tolerance thresholds.
Molecular Formula	0
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
Form	Solid or powder
Purity	≥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-PEG-NH_2 can be used for its potential to optimize amine group availability for pH-responsive charge reversal nanoparticle systems.
Storage	Store at -20°C, protect from light and moisture.