CD BioGlyco
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Product Information

His agent, Xylan-PEG-histidine, Purity ≥95%

Cat. No.: X25-05-YM1023

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

Synonym: Xylan-PEG-histidine; His-PEG-xylan

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

Product Information

Description	Xylan-PEG-histidine creates a ternary composite structure formulated to combine the sustainable carbohydrate matrix of xylan—a β-1,4-xylose-based biopolymer obtained from plant hemicellulose sources—with histidine's molecular characteristics *via* PEG-mediated linkage. The polysaccharide component provides water compatibility and tissue adhesion properties that enhance biological interface acceptance.
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-histidine can be used for its potential to study pH-dependent endosomal escape mechanisms through histidine protonation assays.
Storage	Store at -20°C, protect from light and moisture.

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