CD BioGlyco
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Product Information

Dopamine agent, Xylan-PEG-dopamine, Purity ≥95%

Cat. No.: X25-05-YM1067

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

Synonym: Xylan-PEG-dopamine; Dopamine-PEG-xylan

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

Product Information

Description	Xylan-PEG-dopamine creates a tripartite conjugate system formulated to integrate the renewable carbohydrate framework of xylan—a β-1,4-xylose-based biopolymer derived from plant hemicellulose decomposition—with dopamine's molecular profile *via* PEG-mediated conjugation. The polysaccharide component contributes water compatibility and mucosal adhesion capabilities that optimize biological system tolerance levels.
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-dopamine can be used for its potential to study solid lipid nanoparticle crystallization using triglyceride derivative formulations.
Storage	Store at -20°C, protect from light and moisture.

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