



Product Information

CD agent, Xylan-PEG-cyclodextrin, Purity ≥95%

Cat. No.: X25-05-YM1059

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

Synonym: Xylan-PEG-cyclodextrin; CD-PEG-xylan

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

Product Information

Description	Xylan-PEG-cyclodextrin creates a tripartite conjugate system formulated to integrate the sustainable carbohydrate framework of xylan—a β -1,4-xylose-based biopolymer derived from plant hemicellulose sources—with CD's molecular profile <i>via</i> PEG-mediated conjugation. The polysaccharide component contributes water compatibility and tissue adhesion performance that enhance biological interface adaptability.
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-cyclodextrin can be used for its potential to enable catechol-mediated surface adhesion studies in underwater coating applications.
Storage	Store at -20°C, protect from light and moisture.