



Product Information

PLA agent, Xylan-PEG-poly lactide, Purity ≥95%

Cat. No.: X25-05-YM1029

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

Synonym: Xylan-PEG-poly lactide; PLA-PEG-xylan

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

Product Information

Description	Xylan-PEG-poly lactide represents a three-element conjugate assembly engineered to amalgamate the sustainable polymeric components of xylan—a plant-derived polysaccharide consisting of β-1,4-xylose units—with PLA's molecular properties via PEG spacer linkage. The hydrophilic biopolymer backbone provides aqueous environment affinity and tissue adhesion performance that enhance biological system compatibility.
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-poly lactide can be used for its potential to study biodegradable polymer degradation kinetics in physiological condition simulations.
Storage	Store at -20°C, protect from light and moisture.