



Product Information

Lys agent, Xylan-PEG-lysine, Purity ≥95%

Cat. No.: X25-05-YM1014

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

Synonym: Xylan-PEG-lysine; Lys-PEG-xylan

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

Product Information

Description	Xylan-PEG-lysine forms a three-component hybrid assembly designed to amalgamate xylan's sustainable polymeric matrix—comprising β -1,4-xylose units sourced from hemicellulose biomass decomposition—with lysine's biochemical profile through polyethylene glycol bridging. The hydrophilic biopolymer backbone provides moisture retention capacity and tissue adherence capabilities while enhancing biological material 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-lysine can be used for its potential to optimize lysine-mediated crosslinking in dynamic hydrogel formation kinetics.
Storage	Store at -20°C, protect from light and moisture.