

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.