

Product Information

PLL agent, Xylan-PEG-poly-L-lysine, Purity $\geq 95\%$

Cat. No.: X25-05-YM1005

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

Synonym: Xylan-PEG-poly-L-lysine; PLL-PEG-xylan

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

Product Information

Description	Xylan-PEG-poly-L-lysine establishes a ternary conjugate system formulated to synergize xylan's sustainable carbohydrate framework—consisting of β -1,4-linked xylose chains extracted from vegetative hemicellulose—with poly-L-lysine's functional characteristics <i>via</i> PEG spacer mediation. The natural polysaccharide component provides hydration maintenance and tissue adhesion properties that improve biocompatibility parameters.
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	$\geq 95\%$
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-L-lysine can be used for its potential to improve gene delivery efficiency using cationic polypeptide-coated non-viral vectors.
Storage	Store at -20°C , protect from light and moisture.