

Product Information

Poly-ornithine agent, Xylan-PEG-poly-ornithine, Purity $\geq 95\%$

Cat. No.: X25-05-YM1017

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

Synonym: Xylan-PEG-poly-ornithine; Poly-ornithine-PEG-xylan

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

Product Information

Description	Xylan-PEG-poly-ornithine represents a tripartite molecular assembly engineered to integrate the sustainable structural components of xylan—a plant-derived polysaccharide consisting of β -1,4-xylose units—with poly-ornithine's biochemical attributes <i>via</i> PEG spacer linkage. The carbohydrate framework provides aqueous medium affinity and tissue adhesion capabilities that enhance biological material tolerance levels.
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-ornithine can be used for its potential to enhance polyplex stability for gene editing tools using poly-ornithine coatings.
Storage	Store at -20°C , protect from light and moisture.