

Product Information

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

Cat. No.: X25-05-YM1002

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

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

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

Product Information

Description	Xylan-PEG-poly-arginine constitutes a tri-element conjugate system engineered to merge the sustainable polymeric foundation of xylan—a β -1,4-xylose chain biopolymer obtained from plant hemicellulose sources—with poly-arginine's functional profile through polyethylene glycol interconnection. The natural polysaccharide backbone provides aqueous medium affinity and surface adherence capabilities that elevate biological tolerance thresholds.
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-arginine can be used for its potential to study multivalent nucleic acid binding through poly-arginine charge density modulation.
Storage	Store at -20°C , protect from light and moisture.