

Product Information

Azithromycin agent, Xylan-PEG-azithromycin, Purity $\geq 95\%$

Cat. No.: X25-05-YM1009

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

Synonym: Xylan-PEG-azithromycin; Azithromycin-PEG-xylan

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

Product Information

Description	Xylan-PEG-azithromycin represents a ternary hybrid configuration engineered to synergize xylan's ecologically sourced architectural framework—comprising β -1,4-xylose chains extracted from hemicellulose biomass—with azithromycin's functional attributes <i>via</i> PEG spacer conjugation. The natural polysaccharide component contributes moisture retention and surface adhesion properties that improve biocompatibility 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-azithromycin can be used for its potential to study intracellular bacterial persistence using macrolide antibiotic-loaded nanocarriers.
Storage	Store at -20°C , protect from light and moisture.