

Product Information

CPP agent, Xylan-PEG-CPP peptide, Purity $\geq 95\%$

Cat. No.: X25-05-YM1026

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

Synonym: Xylan-PEG-CPP peptide; CPP-PEG-xylan

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

Product Information

Description	Xylan-PEG-CPP peptide forms a tri-element conjugate assembly designed to integrate xylan's sustainable polymeric matrix—comprising β -1,4-xylose chains extracted from hemicellulose biomass decomposition—with CPP peptide's molecular profile through polyethylene glycol bridging. The hydrophilic polysaccharide backbone provides moisture retention capacity and tissue adherence properties while enhancing biological interface tolerance.
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-CPP peptide can be used for its potential to enhance cytosolic delivery efficiency using cell-penetrating peptide conjugation strategies.
Storage	Store at -20°C , protect from light and moisture.