

Product Information

Carboxylic acid agent, Xylan-PEG-COOH, Purity $\geq 95\%$

Cat. No.: X25-05-YM1035

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

Synonym: Xylan-PEG-COOH; Carboxylic acid-PEG-xylan

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

Product Information

Description	Xylan-PEG-COOH creates a tripartite molecular composite formulated to integrate the sustainable polymeric matrix of xylan—a β -1,4-xylose-based biopolymer obtained from plant hemicellulose sources—with carboxylic acid's molecular characteristics <i>via</i> PEG-mediated conjugation. The polysaccharide component contributes water compatibility and tissue adhesion performance that enhance biological material adaptability.
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-COOH can be used for its potential to design carboxyl-functionalized carriers for ionic crosslinking in nanoparticle stabilization.
Storage	Store at -20°C , protect from light and moisture.