



Product Information

Aldehyde agent, Xylan-PEG-CHO, Purity $\geq 95\%$

Cat. No.: X25-05-YM1056

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

Synonym: Xylan-PEG-CHO; Aldehyde-PEG-xylan

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

Product Information

Description	Xylan-PEG-CHO constitutes a three-component molecular hybrid developed to synergize xylan's sustainable polymeric architecture—composed of β -1,4-linked xylose residues derived from vegetative hemicellulose sources—with aldehyde group's biochemical attributes through polyethylene glycol intermediation. The natural biopolymer component contributes hydration maintenance and tissue adherence performance while enhancing biological material compatibility.
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-CHO can be used for its potential to study inverse electron-demand diels-alder reactions for bioorthogonal surface patterning.
Storage	Store at -20°C , protect from light and moisture.