

Product Information

MAL agent, Xylan-PEG-maleimide, Purity $\geq 95\%$

Cat. No.: X25-05-YM1036

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

Synonym: Xylan-PEG-maleimide; MAL-PEG-xylan

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

Product Information

Description	Xylan-PEG-maleimide constitutes a three-component conjugate system developed to synergize xylan's ecologically derived architectural framework—composed of β -1,4-linked xylose residues harvested from vegetative hemicellulose materials—with MAL's functional attributes through polyethylene glycol intermediation. The natural biopolymer matrix ensures hydration maintenance and surface adherence capabilities while improving biological system 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-maleimide can be used for its potential to enable site-specific cysteine conjugation using maleimide-thiol coupling chemistry.
Storage	Store at -20°C , protect from light and moisture.