

Product Information

Biotin agent, Xylan-PEG-biotin, Purity $\geq 95\%$

Cat. No.: X25-05-YM1030

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

Synonym: Xylan-PEG-biotin; Biotin-PEG-xylan

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

Product Information

Description	Xylan-PEG-biotin forms a ternary hybrid configuration designed to merge xylan's ecologically sourced carbohydrate architecture—comprising β -1,4-xylose chains harvested from hemicellulose biomass—with biotin's functional profile through polyethylene glycol conjugation. The natural polysaccharide component contributes moisture retention capacity and surface adherence properties while improving biological interface 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-biotin can be used for its potential to enable modular assembly through streptavidin-biotin affinity-based multimerization.
Storage	Store at -20°C , protect from light and moisture.