

Product Information

Adamantine agent, Xylan-PEG-adamantine, Purity $\geq 95\%$

Cat. No.: X25-05-YM1001

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

Synonym: Xylan-PEG-adamantine; Adamantine-PEG-xylan

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

Product Information

Description	Xylan-PEG-adamantine creates a ternary complex structured to synergistically blend xylan's renewable carbohydrate skeleton—composed of β -1,4-xylose units harvested from vegetative hemicellulose materials—with adamantine's molecular characteristics through PEG spacer integration. This configuration employs xylan's inherent hydrophilicity and mucoadhesive potential to improve biological interface 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-adamantine can be used for its potential to construct cyclodextrin-based host-guest systems for controlled molecular encapsulation and release.
Storage	Store at -20°C , protect from light and moisture.