

Product Information

Cisplatin agent, Xylan-PEG-cisplatin, Purity $\geq 95\%$

Cat. No.: X25-05-YM1020

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

Synonym: Xylan-PEG-cisplatin; Cisplatin-PEG-xylan

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

Product Information

Description	Xylan-PEG-cisplatin constitutes a tri-component molecular composite developed to synergistically blend xylan's sustainable carbohydrate structure—composed of β -1,4-linked xylose residues harvested from vegetative hemicellulose sources—with cisplatin's functional properties through polyethylene glycol bridging. The biopolymer matrix provides hydration maintenance and tissue adherence capabilities while enhancing 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-cisplatin can be used for its potential to investigate platinum drug-DNA interaction kinetics in chemotherapy resistance models.
Storage	Store at -20°C , protect from light and moisture.