

Product Information

Casein agent, Xylan-PEG-casein, Purity $\geq 95\%$

Cat. No.: X25-05-YM1013

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

Synonym: Xylan-PEG-casein; Casein-PEG-xylan

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

Product Information

Description	Xylan-PEG-casein represents a tripartite molecular configuration engineered to integrate the renewable structural elements of xylan—a plant-derived polysaccharide composed of β -1,4-linked xylose residues—with casein's functional attributes through PEG spacer mediation. The carbohydrate framework ensures aqueous environment compatibility and mucosal adhesion properties that optimize biological system 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-casein can be used for its potential to create sustained nutrient release platforms through protein-polysaccharide coacervation.
Storage	Store at -20°C , protect from light and moisture.