

Product Information

PBA agent, Xylan-phenylboronic acid, Purity $\geq 95\%$

Cat. No.: X25-05-YM799

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

Synonym: Xylan-phenylboronic acid; PBA-xylan

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

Product Information

Description	In the xylan-phenylboronic acid complex, the boronic acid's molecular recognition capabilities are effectively paired with xylan's β -1,4-xylose backbone obtained from vegetative hemicellulose. The resulting biocomposite demonstrates optimized solubility through xylan's water-friendly polymer configuration.
Glycan Name	Xylan
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
Functional Group	PBA
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-phenylboronic acid can be used for its potential to design glucose-responsive hydrogels using diol-binding chemistry for smart insulin release assays.
Storage	Store at -20°C , protect from light and moisture.