CD BioGlyco
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# Product Information

## Thr agent, Xylan-threonine, Purity ≥95%

**Cat. No.:** X25-05-YM842

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

**Synonym:** Xylan-threonine; Thr-xylan

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

## Product Information

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| **Description** | Threonine conjugation to xylan creates a hydroxyl-containing hybrid system combining amino acid properties with xylan's β-1,4-linked xylose network. The polysaccharide component enhances aqueous behavior through water-compatible polymer characteristics. |
| **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** | Thr |
| **Form** | Solid or powder |
| **Purity** | ≥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-threonine can be used for its potential to improve nucleic acid condensation efficiency through polyamine charge density tuning. |
| **Storage** | Store at -20°C, protect from light and moisture. |