

Product Information

MTX agent, Xylan-methotrexate, Purity $\geq 95\%$

Cat. No.: X25-05-YM833

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

Synonym: Xylan-methotrexate; MTX-xylan

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

Product Information

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| Description | Methotrexate-xylan conjugation represents a chemotherapeutic hybrid combining antifolate properties with xylan's β -1,4-xylose framework from renewable hemicellulose. This biomaterial implementation benefits from the polysaccharide's solubility-enhancing architecture. |
| 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 | MTX |
| 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-methotrexate can be used for its potential to enhance epidermal growth factor receptor binding through peptide ligand optimization. |
| Storage | Store at -20°C , protect from light and moisture. |