

Product Information

Metronidazole agent, Xylan-metronidazole, Purity $\geq 95\%$

Cat. No.: X25-05-YM838

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

Synonym: Xylan-metronidazole; Metronidazole-xylan

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

Product Information

Description	Metronidazole-xylan conjugation establishes an antimicrobial hybrid system combining nitroimidazole properties with xylan's β -1,4-linked xylose matrix from plant biomass. The carbohydrate architecture contributes to enhanced aqueous dispersibility.
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	Metronidazole
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-metronidazole can be used for its potential to optimize nanoparticle self-assembly <i>via</i> tyrosine-mediated π - π stacking interactions.
Storage	Store at -20°C , protect from light and moisture.