



Product Information

Pentafluorophenyl agent, Lentinan-PEG-pentafluorophenyl, Purity $\geq 95\%$

Cat. No.: X25-05-YM683

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

Synonym: Lentinan-PEG-pentafluorophenyl; Pentafluorophenyl-PEG-Lentinan

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

Product Information

Description	Lentinan-PEG-pentafluorophenyl, identified as pentafluorophenyl-lentinan, forms a perfluorinated aromatic conjugate through PEG-spaced attachment of pentafluorobenzene groups to lentinan's β -glucan backbone. This electron-deficient hybrid preserves triple-helix conformation while enabling Diels-Alder reactions for bioorthogonal labeling.
Glycan Structure	Its glycan structure is a β -(1 \rightarrow 3)-linked d-glucose backbone with β -(1 \rightarrow 6)-glucosyl side branches.
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	Lentinan-PEG-pentafluorophenyl can be used for its potential to design lipid-PEG conjugates for solid nanoparticle stabilization in emulsion polymerization.
Storage	Store at -20°C , protect from light and moisture.