

## Product Information

### Vinylsulfone agent, Lentinan-PEG-vinylsulfone, Purity $\geq 95\%$

**Cat. No.:** X25-05-YM669

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

**Synonym:** Lentinan-PEG-vinylsulfone; Vinylsulfone-PEG-Lentinan

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

#### Product Information

<b>Description</b>	Lentinan-PEG-vinylsulfone, referenced as vinylsulfone-lentinan, engineers a Michael acceptor-conjugated hybrid using PEG chains to bond reactive sulfone groups to lentinan's polysaccharide framework. This thiol-reactive derivative preserves triple-helix geometry while enabling thioether bond formation for stable bioconjugation.
<b>Glycan Structure</b>	Its glycan structure is a $\beta$ -(1 $\rightarrow$ 3)-linked d-glucose backbone with $\beta$ -(1 $\rightarrow$ 6)-glucosyl side branches.
<b>Source</b>	Chemical synthesis
<b>Form</b>	Solid or powder
<b>Purity</b>	$\geq 95\%$
<b>Impurities</b>	No visible impurities to the naked eye.
<b>Solubility</b>	This product is soluble in most organic solvents, such as DCM, DMF, DMSO, and THF, and exhibits excellent solubility in water.
<b>Identity</b>	Confirmed by NMR.
<b>Stability</b>	It is stable under its storage temperature.
<b>Quality Level</b>	Research grade
<b>Applications</b>	Lentinan-PEG-vinylsulfone can be used for its potential to analyze tosyl-PEG reactivity in nucleophilic aromatic substitution for controlled polymer branching.
<b>Storage</b>	Store at $-20^{\circ}\text{C}$ , protect from light and moisture.