

Product Information

Epoxide agent, Lentinan-PEG-epoxide, Purity $\geq 95\%$

Cat. No.: X25-05-YM661

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

Synonym: Lentinan-PEG-epoxide; Epoxide-PEG-Lentinan

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

Product Information

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| Description | Lentinan-PEG-epoxide, denoted epoxide-lentinan, constructs a three-membered cyclic ether-conjugated hybrid using PEG spacers to bond reactive epoxy groups to lentinan's β -1,3-1,6-glucan backbone. This chemically crosslinkable derivative preserves triple-helix geometry while enabling hydrogel formation for sustained immune activation. |
| 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-epoxide can be used for its potential to investigate mesylate group reactivity in nucleophilic substitution reactions for dendrimer synthesis. |
| Storage | Store at -20°C , protect from light and moisture. |