

## Product Information

### Bromide agent, Lentinan-PEG-bromide, Purity $\geq 95\%$

**Cat. No.:** X25-05-YM672

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

**Synonym:** Lentinan-PEG-bromide; Bromide-PEG-Lentinan

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

#### Product Information

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|-------------------------|---|
| <b>Description</b>      | Lentinan-PEG-bromide, labeled bromide-lentinan, generates a halogenated conjugate through PEG-mediated bonding of bromine atoms to lentinan's polysaccharide chains. This electronegative hybrid maintains helical integrity while influencing nucleophilic substitution reactions for controlled drug release. |
| <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-bromide can be used for its potential to create flame-retardant coatings using triphenyl phosphate-PEG conjugates in material safety testing.  |
| <b>Storage</b>          | Store at $-20^{\circ}\text{C}$ , protect from light and moisture.   |