

## Product Information

### Pemetrexed agent, Lentinan-PEG-pemetrexed, Purity $\geq 95\%$

**Cat. No.:** X25-05-YM700

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

**Synonym:** Lentinan-PEG-pemetrexed; Pemetrexed-PEG-Lentinan

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

#### Product Information

<b>Description</b>	Lentinan-PEG-pemetrexed, termed pemetrexed-lentinan, creates a multitargeted antifolate conjugate using PEG spacers to bond chemotherapeutic agents to lentinan's $\beta$ -glucan backbone. This combination therapy hybrid maintains helical stability while reducing systemic toxicity through targeted delivery.
<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-pemetrexed can be used for its potential to investigate ciprofloxacin-PEG conjugates for biofilm penetration in chronic infection models.
<b>Storage</b>	Store at $-20^{\circ}\text{C}$ , protect from light and moisture.