

Product Information

PNIPAAm agent, Lentinan-poly(*N*-isopropylacrylamide), Purity $\geq 95\%$

Cat. No.: X25-05-YM596

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

Synonym: Lentinan-poly(*N*-isopropylacrylamide); Poly(*N*-isopropylacrylamide)-Lentinan

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

Product Information

Description	Lentinan-poly(<i>N</i> -isopropylacrylamide), referred to as PNIPAAm-lentinan, represents a newly developed conjugate combining the immunotherapeutic β -1,3-1,6-glucan lentinan with PNIPAAm. This synthesized design applies lentinan's three-dimensional helical geometry and tumor-inhibitory attributes through thymus-mediated immune activation pathways.
Glycan Name	Lentinan
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
Functional Group	PNIPAAm
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-poly(<i>N</i> -isopropylacrylamide) can be used for its potential to design PNIPAM hybrids for temperature-responsive drug release in hyperthermia treatment models.
Storage	Store at -20°C , protect from light and moisture.