

Product Information

DOTA agent, Lentinan-PEG-1,4,7,10-tetraazacyclododecane-1,4,7,10-tetraacetic acid, Purity $\geq 95\%$

Cat. No.: X25-05-YM790

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

Synonym: Lentinan-PEG-1,4,7,10-tetraazacyclododecane-1,4,7,10-tetraacetic acid;

1,4,7,10-Tetraazacyclododecane-1,4,7,10-tetraacetic acid-PEG-Lentinan

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

Product Information

Description	Lentinan-PEG-DOTA, referred to as DOTA-lentinan, constitutes a chelator conjugate formed by attaching DOTA ligands to lentinan's β -glucan through PEG linkages. The metal-chelating system enables radiopharmaceutical applications while preserving lentinan's therapeutic effects and DPPS-mediated membrane interactions.
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-1,4,7,10-tetraazacyclododecane-1,4,7,10-tetraacetic acid can be used for its potential to create DOTA chelators for radiometal complexation in molecular imaging probe development.
Storage	Store at -20°C , protect from light and moisture.