

Product Information

Polystyrene agent, Chondroitin sulfate-PEG-polystyrene, Purity $\geq 95\%$

Cat. No.: X25-05-YM236

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

Synonym: Polystyrene-PEG-chondroitin sulfate; Polystyrene-PEG-chondroitin sulfate; Chondroitin sulfate-PEG-polystyrene

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

Product Information

Description	PS-grafted PEG-chondroitin sulfate (PS-PEG-CS) polymerizes styrene monomers <i>via</i> PEG-ATRP initiation, creating hydrophobic cores for micellar drug encapsulation.
Glycan Structure	The glycan structure of chondroitin sulfate (CS) is a sulfated glycosaminoglycan (GAG) composed of repeating disaccharide units. Each unit consists of: <i>N</i> -acetyl-D-galactosamine (GalNAc) ($\beta 1 \rightarrow 4$ linked) D-glucuronic acid (GlcA) ($\beta 1 \rightarrow 3$ linked)
Source	Chemical synthesis
Functional Group	Polystyrene
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 level
Applications	Chondroitin sulfate-PEG-polystyrene can be used for its potential to study nanoparticle rigidity effects on macrophage uptake patterns.
Storage	Store at -20°C , protect from light and moisture.