

Product Information

PCL agent, Chondroitin sulfate-PEG-polycaprolactone, Purity $\geq 95\%$

Cat. No.: X25-05-YM203

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

Synonym: Polycaprolactone-PEG-chondroitin sulfate; PCL-PEG-chondroitin sulfate; Chondroitin sulfate-PEG-PCL

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

Product Information

Description	PCL-grafted PEG-chondroitin sulfate (PCL-PEG-CS) sequentially conjugates polycaprolactone blocks through PEG spacers, creating biodegradable thermoplastic elastomers with chondroitin-mediated cellular interactions.
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	PCL
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-polycaprolactone can be used for its potential to engineer semicrystalline polyesters for tunable drug release kinetics.
Storage	Store at -20°C , protect from light and moisture.