

## Product Information

### PPS agent, Chondroitin sulfate-polyphenylene sulfide, Purity $\geq 95\%$

**Cat. No.:** X25-05-YM025

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

**Synonym:** Polyphenylene sulfide-chondroitin sulfate; PPS-chondroitin sulfate; Chondroitin sulfate-PPS

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

#### Product Information

<b>Description</b>	PPS-chondroitin sulfate composite material results from nucleophilic aromatic substitution, integrating polyphenylene sulfide's thermal stability with chondroitin's aqueous solubility.
<b>Glycan Name</b>	Chondroitin sulfate
<b>Glycan Structure</b>	The glycan structure of chondroitin sulfate (CS) is a sulfated glycosaminoglycan (GAG) composed of repeating disaccharide units. Each unit consists of: N-acetyl-D-galactosamine (GalNAc) ( $\beta 1 \rightarrow 4$ linked) D-glucuronic acid (GlcA) ( $\beta 1 \rightarrow 27$ linked)
<b>Source</b>	Chemical synthesis
<b>Functional Group</b>	PPS
<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 level
<b>Applications</b>	Chondroitin sulfate-polyphenylene sulfide can be used for its potential to engineer high-temperature polymers for biomedical device coatings.
<b>Storage</b>	Store at $-20^{\circ}\text{C}$ , protect from light and moisture.