

Product Information

Hydroxyl agent, Chondroitin sulfate-OH, Purity $\geq 95\%$

Cat. No.: X25-05-YM101

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

Synonym: OH-chondroitin sulfate; Hydroxyl-chondroitin sulfate; Chondroitin sulfate-hydroxyl

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

Product Information

Description	Hydroxyl-modified chondroitin sulfate (alternately called hydroxyl-CS) represents a chemically enhanced polysaccharide derivative where hydroxyl moieties are directly bonded to the chondroitin matrix, merging its natural biological activity with hydroxyl's reactive chemical potential.
Glycan Name	Chondroitin sulfate
Glycan Structure	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) ($\beta 1 \rightarrow 103$ linked)
Source	Chemical synthesis
Functional Group	Hydroxyl
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-OH can be used for its potential to facilitate hydroxyl group modifications for enhancing biomaterial hydrophilicity in tissue engineering.
Storage	Store at -20°C , protect from light and moisture.