

Product Information

TCO agent, Chondroitin sulfate-*trans*-cyclooctene, Purity $\geq 95\%$

Cat. No.: X25-05-YM102

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

Synonym: *Trans*-cyclooctene-chondroitin sulfate; TCO-chondroitin sulfate; Chondroitin sulfate-TCO

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

Product Information

Description	TCO-conjugated chondroitin sulfate (TCO-CS) forms a bioorthogonal complex through covalent attachment of <i>trans</i> -cyclooctene groups, blending chondroitin's therapeutic benefits with TCO's rapid click chemistry reactivity.
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) ($\beta 1 \rightarrow 104$ linked)
Source	Chemical synthesis
Functional Group	TCO
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- <i>trans</i> -cyclooctene can be used for its potential to enable bioorthogonal click chemistry applications through strain-promoted cycloaddition reactions.
Storage	Store at -20°C , protect from light and moisture.