



## Fluoresceinamine-labeled Sodium Chondroitin Sulfate C (Shark cartilage)

**Product code: CSR-FACS-C1**

**Volume:** 3 mL (1 mg/mL, in phosphate buffered saline (PBS) (—))

**Appearance:** yellow green solution

**Source of sodium chondroitin sulfate:** Shark cartilage

**CAS number of sodium chondroitin sulfate C:** 12678-07-8

**Fluorescent probe:** Fluoresceinamine

**CAS number of fluorescent probe:** 3326-34-9

**Outline:** Chondroitin sulfate (CS) is a sulfated glycosaminoglycan composed of repeating disaccharide units of N-acetyl-D-galactosamine (GalNAc) and D-glucuronic acid (GlcUA). CS is abundant in cartilage and exists as unbranched polysaccharide chains covalently linked to the protein core of proteoglycans. Chondroitin sulfate C (CS-C) contains approximately one sulfate group per disaccharide unit with about 70% as 6-O-sulfation (C structure unit) and about 30% as 4-O-sulfation of GalNAc (A structure unit). This product is prepared by the fluorescent labeling of CS-C derived from shark cartilage according to the method of Ogamo et al.<sup>1)</sup>. Fluoresceinamine molecules are chemically attached to carboxyl groups of the GlcUA of CS. The endotoxin content is in accordance with the product specifications. The excitation wavelength is 490~500 nm and the emission wavelength is 515~525 nm. The enclosed Certification of Analysis lists actual values for product specifications.


### Handling precautions:

- 1) Protect from light as much as possible. Product can be used at room temperature when protected from strong light.
- 2) After thawing, gently agitate the vial before use.
- 3) Store protected from light at -20°C or below. We recommend storing in aliquots appropriate for anticipated usage.
- 4) Fluorescence intensity varies with pH of the solution and is lower under acidic conditions. Note the pH of the sample solution when measuring fluorescence intensity.
- 5) This product is for research use only. Not for use in diagnostic or therapeutic procedures.

### Reference:

- 1) Ogamo A et al.: Carbohydr. Res., **105**, 69 (1982)

*For research use only. Not for clinical diagnosis.*

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