



Fluoresceinamine-labeled Sodium Chondroitin Sulfate C (Shark cartilage)

Product code: CSR-FACS-C2(ShC)3

Size: 3 mg/vial

Appearance: yellow green lyophilizate

Source of sodium chondroitin sulfate C: Shark cartilage

CAS number of sodium chondroitin sulfate: 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.¹⁾. Fluoresceinamine molecules are chemically attached to carboxyl groups of the GlcUA of CS. 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) This product is absorbent. Store avoiding humidity at -20°C or below.
- 2) Protect from light as much as possible. Product can be used at room temperature when protected from strong light.
- 3) Store protected from light at -20°C or below after dissolution. 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)

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COSMO BIO CO., LTD.

Inspiration for Life Science

TOYO 2CHOME, KOTO-KU, TOKYO, 135-0016, JAPAN

URL: <http://www.cosmobio.co.jp>

e-mail: export@cosmobio.co.jp

[Outside Japan] Phone : +81-3-5632-9617

[国内連絡先] Phone : +81-3-5632-9610

FAX : +81-3-5632-9618

FAX : +81-3-5632-9619