



Fluoresceinamine -labeled Sodium Chondroitin Sulfate D (D1)

Product code: CSR-FACS-D1

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

Appearance: yellow green solution

Source of sodium chondroitin sulfate D: Shark cartilage

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. This product is prepared by the fluorescent labeling of CS-D derived from shark cartilage according to the method of Ogamo et al.¹⁾. Fluoresceinamine molecules are chemically attached to carboxyl groups of the glucuronic acid of CS. FACS-D1 contains 20-25 % of disaccharide units with two sulfate groups as 6-O-sulfation of GalNAc and 2-O-sulfation of GlcUA (D structure unit). This solution is dissolved in PBS (-) and sterilized by filtration. 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)

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

URL: <http://www.cosmobio.co.jp> e-mail: export@cosmobio.co.jp
Phone : +81-3-5632-9617 FAX : +81-3-5632-9618