



## Biotin-Labeled Sodium Chondroitin Sulfate E (Squid Cartilage)

Code# : CSR-BHCS-E2(SqC)1

Size : 1 mg/vial

Appearance : white amorphous block or powder (lyophilizate)

Source of sodium chondroitin sulfate : Squid Cartilage

Biotin probe: Biotin-hydrazide

CAS number of biotin probe: 66640-86-6


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 1mg lyophilizate of biotin-labeled sodium chondroitin sulfate E purified from squid cartilage, and is prepared according to the method of Ogamo et al.<sup>1)</sup>. Biotin-hydrazide molecules are chemically attached to carboxyl groups of the GlcUA of CS. CSR-BHCS-E2(SqC)1 contains approximately 60 % of disaccharide units with di-sulfate groups as 4,6-di-O-sulfation of GalNAc (E structure unit). The percentage of disaccharide unit with a sulfate group as 4-O-sulfation of GalNAc (A structure unit) is about 20% and that as 6-O-sulfation of GalNAc (C structure unit) is a few %. The enclosed Certification of Analysis lists actual values for product specifications such as an actual content, a molecular weight or a degree of substitution.

Handling precautions:

- 1) Internal of the vial has been depressurized. Please take notice of this when you open the vial.
- 2) This product is absorbent. Store avoiding humidity at 4°C or below.
- 3) Store at -20°C or below after dissolution. We recommend storing in aliquots appropriate for anticipated usage.
- 4) 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](mailto:export@cosmobio.co.jp)

Phone : +81-3-5632-9617

FAX : +81-3-5632-9618