



Unsaturated Chondro-Disaccharide: Δ Di-diS_B

Code#: CSR-DDI-SB

Product Name: Unsaturated Chondro-Disaccharide: Δ Di-diS_B

Other Name: 2-acetamido-2-deoxy-3-O-(2-O-sulfo- β -D-glucopyranosyluronic acid)-4-O-sulfo-D-galactose

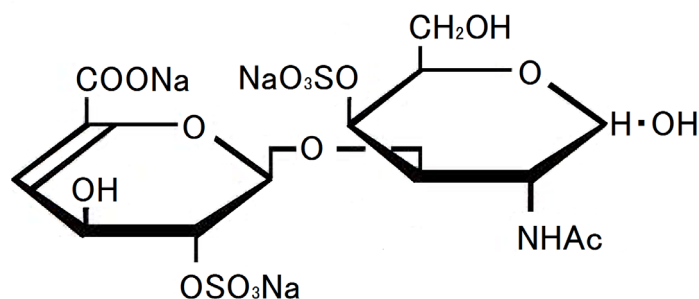
Labeled Amount: 500nmol/vial (lyophilized)

Molecular Formula of Sodium Salt: C₁₄H₁₈NNa₃O₁₇S₂

Formula Weight of Sodium Salt: 605.3

Storage: below -20°C in the dark.

This product is made from dermatan sulfate (DS) polymer by digestion with Chondroitinase ABC (CAS: 9024-13-9), and purified by the column chromatography. Δ Di-diS_B has a double bond (unsaturated bond) between C-4 and C-5 position of uronic acid at the non-reducing end, and “ Δ (delta)” of Δ Di-diS_B means the unsaturated bond. The structure of Δ Di-diS_B sodium salt is shown in the chart below. This product is useful as a standard for a constituent analysis of DS and chondroitin sulfate (CS) using a HPLC after the digestion with Chondroitinase derived from bacteria¹⁾. Δ Di-diS_B is generated from the disaccharide unit with sulfuric acid ester on 4 position of galactosamine and on 2 position of uronic acid in CS or DS. The enclosed Certification of Analysis lists actual content and purity for product specifications.



Handling precautions:

1. Store protected from light at -20°C or below **avoiding humidity**.
2. Please **precipitate** the lyophilizate to the bottom of the vial by flash-centrifugation **before opening** of the vial.
3. We recommend freeze-preserving in aliquots appropriate for anticipated usage after dissolving with 0.5mL of an appropriate solvent. The vial capacity is for **0.5mL**.
4. Preservation stability varies with pH of the solution and is lower under alkaline conditions (**over pH 8**). **Note the pH** of the solvent when dissolving this product.
5. This product is not sterilized, please use filter (ex. 0.22 μ m) as you need.

Reference:

- 1) Yoshida K, et al.: Anal Biochem, **177**, 327 (1989)

NOTICE: For R&D use only. Do not use for drug, household, cosmetically and others.

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Jan. 28, 2022