



Unsaturated Chondro-Disaccharide: Δ Di-diS_E

Code#: CSR-DDI-SE

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

Other name: 2-acetamido-2-deoxy-3-O-(β -D-gluco-4-enepyranosyluronic acid)-4,6-di-O-sulfo-D-galactose

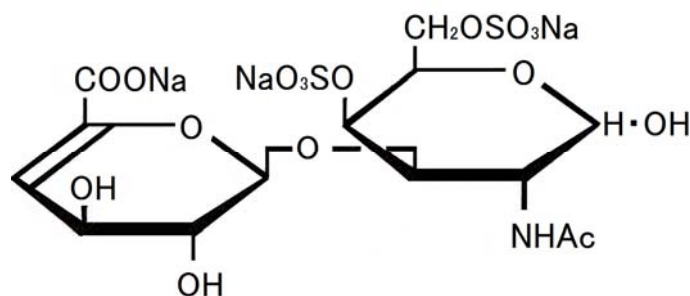
Content: 500nmol/vial (lyophilized)

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 chondroitin sulfate (CS) polymer by digestion with Chondroitinase ABC (CAS: 9024-13-9) or Chondroitinase AC-II (CAS: 9047-57-8), and purified by the column chromatography. Δ Di-diS_E 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_E means the unsaturated bond. The structure of Δ Di-diS_E sodium salt is shown in the chart below. This product is useful as a standard for a constituent analysis of CS and dermatan sulfate (DS) using a HPLC after the digestion with Chondroitinase derived from bacteria¹⁾. Δ Di-diS_E is generated from the “E structure” of CS and “H structure” of 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. 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.
2. 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.
3. 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.