

Unsaturated Chondro-Disaccharide: ∠Di-diS_D

Code#: CSR-DDI-SD

Product Name: Unsaturated Chondro-Disaccharide: ∠Di-diS_D

Other Name: 2-acetamido-2-deoxy-3-O-(2-O-sulfo- β -D-gluco-4-enepyranosyluronic

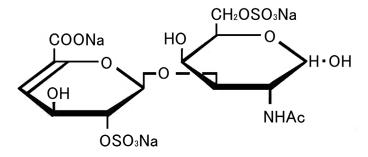
acid)-6-O-sulfo-D-galactose

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 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. $\triangle \text{Di-diSD}$ has a double bond (unsaturated bond) between C-4 and C-5 position of uronic acid at the non-reducing end, and " $\triangle \text{delta}$ " of $\triangle \text{Di-diSD}$ means the unsaturated bond. The structure of $\triangle \text{Di-diSD}$ 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⁾. $\triangle \text{Di-diSD}$ is generated from the disaccharide unit with sulfuric acid ester on 6 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. 0.22μ 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.