



Unsaturated Chondro-Disaccharide: Δ Di-UA2S

Code#: CSR-DDI-UA2S

Product Name: Unsaturated Chondro-Disaccharide: Δ Di-UA2S

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

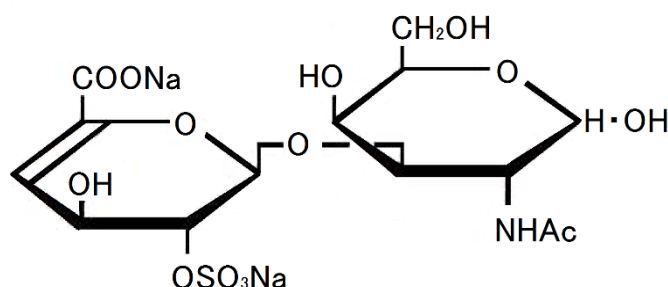
Labeled Amount: 500nmol/vial (lyophilized)

Molecular Formula of Sodium Salt: $C_{14}H_{19}NNa_2O_{14}S$

Formula Weight of Sodium Salt: 503.4

Storage: below $-20^{\circ}C$ in the dark.

This product is made from Unsaturated Chondro-Disaccharide: Δ Di-diS_D by digestion with Chondro-6-Sulfatase (CAS: 9045-76-5), and purified by the column chromatography. Δ Di-UA2S 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-UA2S means the unsaturated bond. The structure of Δ Di-UA2S sodium salt is shown in the chart below. This product is useful as a standard for a constituent analysis of chondroitin sulfate (CS) and dermatan sulfate (DS) using a HPLC after the digestion with Chondroitinase derived from bacteria¹⁾. Δ Di-UA2S is generated from the disaccharide unit with sulfuric acid ester 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 $-20^{\circ}C$ 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. $0.22 \mu m$) 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