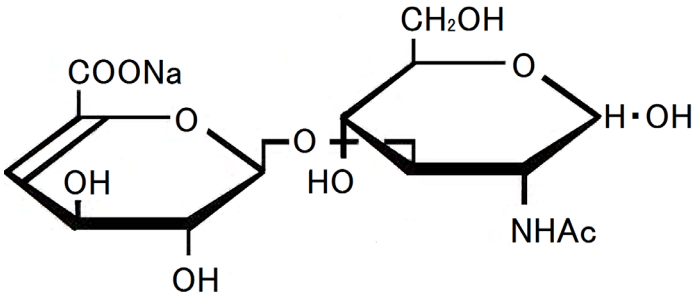
COSMO BIO CO., LTD.
Inspiration for Life Science

Unsaturated Hyaluro-Disaccharide: ⊿Di-HA

Code#: CSR-DDI-HA
Product Name: Unsaturated Hyaluro-Disaccharide: ⊿Di-HA
Other Name: 2-acetamido-2-deoxy-3-O-(β -D-gluco-4-enepyranosyluronic acid)-D-glucose
Labeled Amount: 500nmol/vial (lyophilized)
Molecular Formula of Sodium Salt: $C_{14}H_{20}NNaO_{11}$
Formula Weight of Sodium Salt: 401.3
Storage: below -20℃ in the dark.

This product is made from sodium hyaluronate polymer by digestion with Chondroitinase AC-Ⅱ (CAS: 9047-57-8), and purified by the column chromatography. ⊿Di-HA has a double bond (unsaturated bond) between C-4 and C-5 position of uronic acid at the non-reducing end, and "⊿ (delta)" of ⊿Di-HA means the unsaturated bond. The structure of ⊿Di-HA sodium salt is shown in the chart below. This product is useful as a standard for an analysis of hyaluronan using a HPLC after the digestion with Hyaluronidase or Chondroitinase derived from bacteria[1]. 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)