

## CHST11 Protein, Human, Recombinant (His)

### General Information

Synonyms:	carbohydrate (chondroitin 4) sulfotransferase 11;HSA269537;C4ST;C4ST-1;C4ST1
Protein Construction:	A DNA sequence encoding the human CHST11 (Q9NPF2-2) (Met36-Glu347) was expressed with a C-terminal polyhistidine tag. Predicted N terminal: Met 36
Species:	Human
Expression Host:	Baculovirus Insect Cells
Accession:	Q9NPF2-2
Molecular Weight:	38.4 kDa (predicted); 43 kDa (reducing conditions)

### QC Testing

Biological Activity:	Activity testing is in progress. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	> 95 % as determined by SDS-PAGE
Endotoxin:	< 1.0 EU/µg of the protein as determined by the LAL method.
Formulation:	Lyophilized from a solution filtered through a 0.22 µm filter, containing 20 mM Tris, 500 mM NaCl, 10% glycerol, pH 7.4. Typically, a mixture containing 5% to 8% trehalose, mannitol, and 0.01% Tween 80 is incorporated as a protective agent before lyophilization.

### Preparation and Storage

**Reconstitution:**  
A Certificate of Analysis (CoA) containing reconstitution instructions is included with the products. Please refer to the CoA for detailed information.

**Stability & Storage:**

It is recommended to store recombinant proteins at -20°C to -80°C for future use. Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

**Shipping:**

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

### Protein Background

CHST11, also known as C4ST-1, belongs to the sulfotransferase 2 family. CHST11 localizes to the golgi membrane, and catalyzes the transfer of sulfate to position 4 of the N-acetylgalactosamine (GalNAc) residue of chondroitin. Chondroitin sulfate constitutes the predominant proteoglycan present in cartilage, and is distributed on the surfaces of many cells and extracellular matrices. A chromosomal translocation involving CHST11 gene and IgH, t(12;14)(q23;q32), has been reported in a patient with B-cell chronic lymphocytic leukemia.

Reference

Hiraoka N. et al., 2000, J Biol Chem. 275 (26): 20188-96.

Schmidt HH. et al., 2004, Oncogene. 23 (41): 6991-6.

Okuda T. et al., 2001, J Biochem. 128 (5): 763-70.

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