

# Human CHST11 / C4ST-1 Protein (His Tag)



Sino Biological  
Biological Solution Specialist

Catalog Number: 11396-H08B

## General Information

### Gene Name Synonym:

C4ST; C4ST-1; C4ST1; HSA269537

### Protein Construction:

A DNA sequence encoding the human CHST11 (Q9NPF2-2) (Met36-Glu347) was expressed with a C-terminal polyhistidine tag.

**Source:** Human

**Expression Host:** Baculovirus-Insect Cells

## QC Testing

**Purity:** > 95 % as determined by SDS-PAGE

### Endotoxin:

< 1.0 EU per µg of the protein as determined by the LAL method

### Stability:

Samples are stable for up to twelve months from date of receipt at -70 °C

**Predicted N terminal:** Met 36

### Molecular Mass:

The secreted recombinant human CHST11 consists of 323 amino acids and predicts a molecular mass of 38.4 KDa. The apparent molecular mass of the protein is approximately 43 KDa in SDS-PAGE under reducing conditions.

### Formulation:

Lyophilized from sterile 20mM Tris, 500mM NaCl, 10% glycerol, pH 7.4.

Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Specific concentrations are included in the hardcopy of COA. Please contact us for any concerns or special requirements.

## Usage Guide

### Storage:

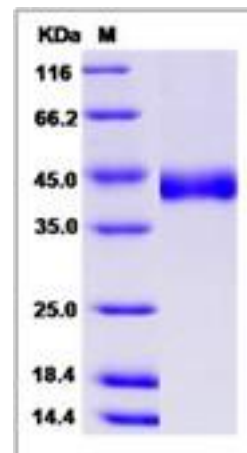
Store it under sterile conditions at -20°C to -80°C upon receiving. Recommend to aliquot the protein into smaller quantities for optimal storage.

**Avoid repeated freeze-thaw cycles.**

### Reconstitution:

Detailed reconstitution instructions are sent along with the products.

## SDS-PAGE:



## Protein Description

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.

## References

1.Hiraoka N. et al., 2000, J Biol Chem. 275 (26): 20188-96. 2.Schmidt HH. et al., 2004, Oncogene. 23 (41): 6991-6. 3.Okuda T. et al., 2001, J Biochem. 128 (5): 763-70.

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