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Datasheet for ABIN7553288  
**CHST6 Protein (AA 1-395) (His tag)**

## Overview

Quantity:	1 mg
Target:	CHST6
Protein Characteristics:	AA 1-395
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This CHST6 protein is labelled with His tag.

## Product Details

Purpose:	Custom-made recombinant CHST6 Protein expressed in mammalian cells.
Sequence:	MWLPRVSSTA VTALLLAQTF LLLFLVSRPG PSSPAGGEAR VHVLVLSWR SGSSFVQQLF NQHPDVFYLM EPAWHVWTTL SQGSAATLHM AVRDLVRSVF LCDMDVFDAY LPWRRNLSDL FQWAVSRALC SPPACSAFPR GAISSEAVCK PLCARQSFTL AREACRSYSH VVLKEVRFFN LQVLYPLLSD PALNLRIVHL VRDPRAVLRs REQTAKALAR DNGIVLGTNG TWVEADPGLR VVREVCRSHV RIAEAATLKP PPFLRGRYRL VRFEDLAREP LAEIRALYAF TGLSLTPQLE AWIHNITHGS GPGARREAFK TSSRNALNVS QAWRHALPFA KIRRVQELCA GALQLLGYRP VYSEDEQRNL ALDLVLPRL NGFTWASSTA SHPRN <b>Sequence without tag. The proposed Purification-Tag is based on experiences with the expression system, a different complexity of the protein could make another tag necessary. In case you have a special request, please contact us.</b>
Specificity:	If you are looking for a specific domain and are interested in a partial protein or a different isoform, please contact us regarding an individual offer.

## Product Details

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### Characteristics:

### Key Benefits:

- Made to order protein - from design to production - by highly experienced protein experts.
- Protein expressed in mammalian cells and purified in one-step affinity chromatography
- The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins.
- State-of-the-art algorithm used for plasmid design (Gene synthesis).

This protein is a made-to-order protein and will be made for the first time for your order. Our experts in the lab try to ensure that you receive soluble protein.

If you are not interested in a full length protein, please contact us for individual protein fragments.

The big advantage of ordering our made-to-order proteins in comparison to ordering custom made proteins from other companies is that there is no financial obligation in case the protein cannot be expressed or purified.

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### Purity:

> 90 % as determined by Bis-Tris PAGE, anti-tag ELISA, Western Blot and analytical SEC (HPLC)

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### Grade:

custom-made

## Target Details

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### Target:

CHST6

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### Alternative Name:

CHST6 ([CHST6 Products](#))

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### Background:

Carbohydrate sulfotransferase 6 (Corneal N-acetylglucosamine-6-O-sulfotransferase) (C-GlcNAc6ST) (hCGn6ST) (EC 2.8.2.21) (Galactose/N-acetylglucosamine/N-acetylglucosamine 6-O-sulfotransferase 4-beta) (GST4-beta) (N-acetylglucosamine 6-O-sulfotransferase 5) (GlcNAc6ST-5) (Gn6st-5),FUNCTION: Sulfotransferase that utilizes 3'-phospho-5'-adenylyl sulfate (PAPS) as sulfonate donor to catalyze the transfer of sulfate to position 6 of non-reducing N-acetylglucosamine (GlcNAc) residues of keratan (PubMed:11352640, PubMed:11278593, PubMed:12218059, PubMed:17690104). Cooperates with B4GALT4 galactosyltransferase and B3GNT7 N-acetylglucosaminyltransferase to construct and elongate the sulfated disaccharide unit [->3Galbeta1->4(6-sulfoGlcNAcbeta)1->] within keratan sulfate polymer. Involved in biosynthesis of keratan sulfate in cornea, with an impact on proteoglycan fibril organization and corneal transparency (PubMed:17690104, PubMed:11278593, PubMed:12218059). Involved in sulfation of endothelial mucins such as GLYCAM1 (PubMed:11352640). {ECO:0000269|PubMed:11278593, ECO:0000269|PubMed:11352640,

## Target Details

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ECO:0000269|PubMed:12218059, ECO:0000269|PubMed:17690104}.

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Molecular Weight: 44.1 kDa

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UniProt: [Q9GZX3](#)

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Pathways: [Glycosaminoglycan Metabolic Process](#)

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## Application Details

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Application Notes: We expect the protein to work for functional studies. As the protein has not been tested for functional studies yet we cannot offer a guarantee though.

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Restrictions: For Research Use only

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## Handling

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Format: Liquid

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Buffer: The buffer composition is at the discretion of the manufacturer.

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Handling Advice: Avoid repeated freeze-thaw cycles.

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Storage: -80 °C

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Storage Comment: Store at -80°C.

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Expiry Date: 12 months

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