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Datasheet for ABIN7565187

**CHST4 Protein (AA 1-388) (His tag)**

## Overview

Quantity:	1 mg
Target:	CHST4
Protein Characteristics:	AA 1-388
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This CHST4 protein is labelled with His tag.

## Product Details

Purpose:	Custom-made recombinant Chst4 Protein expressed in mammalian cells.
Sequence:	MMLLKKGRLL MFLGSQVIVV ALFIHMSVHR HLSQREESRR PVHVLVLSSW RSGSSFVGQL FGQHPDVFYI MEPAWHVWMT FTSSTAWKLH MAVRDLLRSV FLCDMSVFDA YMNPGPRKQS SLFQWEQSRA LCSAPVCDFF PAHEISSPKH CKLLCGQQPF DMVEKACRSH GFVVLKEVRF LSLQALYPLL TDPSLNLHVV HLVRDPRAVF RSREHTTIEL VVDSHIVLGQ HLETIKEEDQ PYYAMKIICK SQVDIVKAIQ TLPEALQQRY LFLRYEDLVR APLAQTTRLY KFGVGLDFLPH LQTWVHNVTR GKGMGQHAFH TNARNALNVS QAWRWSLPYE KVSQIQDACG EAMDLLGYLQ VRSQQEQGNL SLDLLSSSHI LGQVFREG <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:

CHST4

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### Alternative Name:

Chst4 ([CHST4 Products](#))

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### Background:

Carbohydrate sulfotransferase 4 (EC 2.8.2.-) (Galactose/N-acetylglucosamine/N-acetylglucosamine 6-O-sulfotransferase 3) (GST-3) (High endothelial cells N-acetylglucosamine 6-O-sulfotransferase) (HEC-GlcNAc6ST) (L-selectin ligand sulfotransferase) (LSST) (N-acetylglucosamine 6-O-sulfotransferase 2) (GlcNAc6ST-2) (Gn6st-2),FUNCTION: Sulfotransferase involved in SELL/L-selectin ligand biosynthesis pathway. Catalyzes the transfer of the sulfate group from 3'-phospho-5'-adenylyl sulfate (PAPS) onto the hydroxyl group at C-6 position of the non-reducing N-acetylglucosamine (GlcNAc) residue within O-linked mucin-type glycans (PubMed:10435581, PubMed:16227985, PubMed:15319280, PubMed:16227986, PubMed:14597732, PubMed:15111310). Contributes to generate sialyl 6-sulfo Lewis X determinant (also known as MECA-79 epitope) for SELL recognition, a prerequisite for continuous lymphocyte homing into peripheral lymph nodes and antigen immune surveillance. Transfers the sulfate group primarily on core 2 GlcNAcbeta1-6(Galbeta1-3)GalNAcalphaSer/Thr and extended core 1 GlcNAcbeta1-3Galbeta1-3GalNAcalphaSer/Thr

## Target Details

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based O-linked glycans on CD34 and GLYCAM1 peripheral node addressins (PNAds) expressed on the luminal side of high endothelial venules (HEVs) (PubMed:10435581, PubMed:16227985, PubMed:15319280, PubMed:16227986, PubMed:15111310, PubMed:14593101). The recognition of PNAds by SELL initiates a multistep process comprising tethering and rolling of blood lymphocytes on HEVs against the blood flow, followed by chemokine signaling, integrin-mediated lymphocyte adhesion onto endothelial cells and lymphocyte transendothelial migration. Modulates rolling velocity and differential T and B lymphocyte recruitment into peripheral lymph nodes, with a major role in B lymphocyte homing (PubMed:16227985, PubMed:15319280, PubMed:16227986, PubMed:14597732, PubMed:10435581). Might be redundant in sulfation of MADCAM1 and lymphocyte trafficking to mesenteric lymph nodes (PubMed:10435581, PubMed:11520459, PubMed:16227986). Can also sulfonate core 3 GlcNAc $\beta$ 1-3GalNAc-R based glycans as well as GlcNAc $\beta$ 1-3Gal $\beta$ 1-Glc, GlcNAc $\beta$ 1-6ManOMe and GlcNAc $\beta$ 1-2Man oligosaccharides, which might be ectopically expressed during tumorigenesis (By similarity). {ECO:0000250|UniProtKB:Q8NCG5, ECO:0000269|PubMed:10435581, ECO:0000269|PubMed:11520459, ECO:0000269|PubMed:14593101, ECO:0000269|PubMed:14597732, ECO:0000269|PubMed:15111310, ECO:0000269|PubMed:15319280, ECO:0000269|PubMed:16227985, ECO:0000269|PubMed:16227986}.

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Molecular Weight: 44.6 kDa

UniProt: [Q9R111](#)

## 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.

Restrictions: For Research Use only

## Handling

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Format: Liquid

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

Handling Advice: Avoid repeated freeze-thaw cycles.

Storage: -80 °C

Storage Comment: Store at -80°C.

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## Handling

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Expiry Date: 12 months