

Datasheet for ABIN3137455

CHST4 Protein (AA 29-388) (His tag)[Go to Product page](#)**1** Image

Overview

Quantity:	1 mg
Target:	CHST4
Protein Characteristics:	AA 29-388
Origin:	Mouse
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This CHST4 protein is labelled with His tag.
Application:	ELISA, Western Blotting (WB), Crystallization (Crys), SDS-PAGE (SDS)

Product Details

Sequence:	<p>HRHLSQREES RRPVHVLVLS SWRSGSSFVG QLFGQHPDVF YLMEPAWHVW MTFTSSTAWK LHMAVRDLLR SVFLCDMSVF DAYMNPGRP K QSSLFQWEQS RALCSAPVCD FFP AHEISSP KHCKLLCGQQ PFD MVEKACR SHGFVVLKEV RFLSLQALYP LLTDPSLNLH VVHLVRDPRA VFRSREHTTI ELVVDSHIVL GQHLETIKEE DQPYYAMKII CKSQVDIVKA IQTLPEALQQ RYLFLRYEDL VRAPLAQTTR LYKFVGLDFL PHLQTWVHNV TRGKGMGQHA FHTNARNALN VSQAWRWSLP YEKVSQLQDA CGEAMDLLGY LQVRSQQEQG NLSLDLLSSS HILGQVFREG</p> <p>Sequence without tag. Tag location is at the discretion of the manufacturer. If you have a special request, please contact us.</p>
Characteristics:	<ul style="list-style-type: none">• Made in Germany - from design to production - by highly experienced protein experts.• Mouse Chst4 Protein (raised in Insect Cells) purified by multi-step, protein-specific process to ensure crystallization grade.• State-of-the-art algorithm used for plasmid design (Gene synthesis).

Product Details

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

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.

In the unlikely event that the protein cannot be expressed or purified we do not charge anything (other companies might charge you for any performed steps in the expression process for custom-made proteins, e.g. fees might apply for the expression plasmid, the first expression experiments or purification optimization).

When you order this made-to-order protein you will only pay upon receipt of the correctly folded protein. With no financial risk on your end you can rest assured that our experienced protein experts will do everything to make sure that you receive the protein you ordered.

The concentration of our recombinant proteins is measured using the absorbance at 280nm. The protein's absorbance will be measured in several dilutions and is measured against its specific reference buffer.

The concentration of the protein is calculated using its specific absorption coefficient. We use the Expasy's protparam tool to determine the absorption coefficient of each protein.

Purification:	Two step purification of proteins expressed in baculovirus infected SF9 insect cells: <ol style="list-style-type: none">1. In a first purification step, the protein is purified from the cleared cell lysate using three different His-tag capture materials: high yield, EDTA resistant, or DTT resistant. Eluate fractions are analyzed by SDS-PAGE.2. Protein containing fractions of the best purification are subjected to second purification step through size exclusion chromatography. Eluate fractions are analyzed by SDS-PAGE and Western blot.
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Purity:	>95 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot.
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Sterility:	0.22 µm filtered
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Endotoxin Level:	Protein is endotoxin free.
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Grade:	Crystallography grade
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Target Details

Target:	CHST4
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Alternative Name:	Chst4 (CHST4 Products)
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Background:	Sulfotransferase that utilizes 3'-phospho-5'-adenylyl sulfate (PAPS) as sulfonate donor to
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Target Details

catalyze the transfer of sulfate to position 6 of non-reducing N-acetylglucosamine (GlcNAc) residues within mucin-associated glycans that ultimately serve as SELL ligands. SELL ligands are present in high endothelial cells (HEVs) and play a central role in lymphocyte homing at sites of inflammation. Participates in biosynthesis of SELL ligand sialyl 6-sulfo Lewis X on SELL counter-receptors SPN/CD43, GLYCAM1 and MADCAM1. Also involved in biosynthesis of SELL ligand recognized by MECA-79 antibody. Plays a central role in lymphocyte trafficking during chronic inflammation. Has a catalytic preference for core 2-branched mucin-type O-glycans. Can use GlcNAc β 1-6[Gal β 1-3]GalNAc-pNP (core 2), GlcNAc β 1-6ManOMe and GlcNAc β 1-2Man oligosaccharide structures as acceptors. Has also activity toward core 3 of GlcNAc β 1-3GalNAc-pNP. Its substrate specificity may be influenced by its subcellular location. {ECO:0000269|PubMed:10435581, ECO:0000269|PubMed:11520459, ECO:0000269|PubMed:14593101, ECO:0000269|PubMed:14597732, ECO:0000269|PubMed:15111310}.

Molecular Weight: 42.4 kDa Including tag.

UniProt: [Q9R111](#)

Application Details

Application Notes: In addition to the applications listed above we expect the protein to work for functional studies as well. As the protein has not been tested for functional studies yet we cannot offer a guarantee though.

Comment: Protein has not been tested for activity yet. In cases in which it is highly likely that the recombinant protein with the default tag will be insoluble our protein lab may suggest a higher molecular weight tag (e.g. GST-tag) instead to increase solubility. We will discuss all possible options with you in detail to assure that you receive your protein of interest.

Restrictions: For Research Use only

Handling

Format: Liquid

Buffer: 100 mM NaCl, 20 mM Hepes, 10% glycerol. pH value is at the discretion of the manufacturer.

Handling Advice: Avoid repeated freeze-thaw cycles.

Storage: -80 °C

Storage Comment: Store at -80°C.

Handling

Expiry Date: Unlimited (if stored properly)

Images



Image 1. „Crystallography Grade“ protein due to multi-step, protein-specific purification process