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CHST4 Protein (AA 1-388) (rho-1D4 tag)



Image



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Overview

Quantity:	1 mg
Target:	CHST4
Protein Characteristics:	AA 1-388
Origin:	Mouse
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This CHST4 protein is labelled with rho-1D4 tag.
Application:	ELISA, Western Blotting (WB), Crystallization (Crys), SDS-PAGE (SDS)

Product Details

Sequence:

MMLLKKGRLL MFLGSQVIVV ALFIHMSVHR HLSQREESRR PVHVLVLSSW RSGSSFVGQL
FGQHPDVFYL MEPAWHVWMT FTSSTAWKLH MAVRDLLRSV FLCDMSVFDA YMNPGPRKQS
SLFQWEQSRA LCSAPVCDFF PAHEISSPKH CKLLCGQQPF DMVEKACRSH GFVVLKEVRF
LSLQALYPLL TDPSLNLHVV HLVRDPRAVF RSREHTTIEL VVDSHIVLGQ HLETIKEEDQ
PYYAMKIICK SQVDIVKAIQ TLPEALQQRY LFLRYEDLVR APLAQTTRLY KFVGLDFLPH
LQTWVHNVTR GKGMGQHAFH TNARNALNVS QAWRWSLPYE KVSQLQDACG EAMDLLGYLQ
VRSQQEQGNL SLDLLSSSHI LGQVFREG

Sequence without tag. Tag location is at the discretion of the manufacturer. If you have a special request, please contact us.

Characteristics:

- 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).

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 receival 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:

Three step purification of membrane proteins expressed in baculovirus infected SF9 insect cells:

- 1. Membrane proteins are fractioned by ultracentrifugation and subsequently solubilized with different detergents (detergent screen). Samples are analyzed by Western blot.
- 2. The best performing detergent is used for solubilization and the proteins are purified via their rho1D4 tag via two rho1D4 antibody columns: one DTT resistant, the other one not. Eluate fractions are analyzed by Western blot.
- Protein containing fractions of the best purification are subjected to second purification step through size exclusion chromatograph. Eluate fractions are analyzed by SDS-PAGE and Western blot.

 Purity:
 >95 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot.

 Sterility:
 0.22 μm filtered

 Endotoxin Level:
 Protein is endotoxin-free.

 Grade:
 Crystallography grade

Target Details

Target:	CHST4
Alternative Name:	Chst4 (CHST4 Products)
Background:	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 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 0-glycans.
	Can use GlcNAcbeta1-6[Galbeta1-3]GalNAc-pNP (core 2), GlcNAcbeta1-6ManOMe and
	GlcNAcbeta1-2Man oligosaccharide structures as acceptors. Has also activity toward core 3 of
	GlcNAcbeta1-3GalNAc-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:	45.8 kDa Including tag.
UniProt:	Q9R1I1
Application Details	
Application Notes:	In addition to the applications listed above we expect the protein to work for functional studies
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	as well. As the protein has not been tested for functional studies yet we cannot offer a gurantee
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Handling

Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	Unlimited (if stored properly)

Images

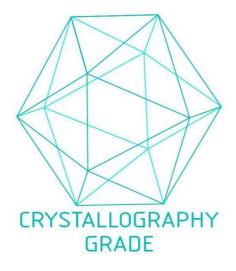


Image 1. "Crystallography Grade" protein due to multi-step, protein-specific purification process