

Datasheet for ABIN7596251

CHST5 Protein (AA 27-395) (His tag)[Go to Product page](#)

Overview

Quantity:	250 µg
Target:	CHST5
Protein Characteristics:	AA 27-395
Origin:	Mouse
Source:	Baculovirus infected Insect Cells
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This CHST5 protein is labelled with His tag.
Application:	SDS-PAGE (SDS), Enzyme Activity Assay (EAA)

Product Details

Sequence:	SRQVP SSPAGLGERV HVLVLSSWRS GSSFVQQLFS QHPDVFYLM E PAWHVWDTLS QGSAPALHMA VRDLIRSVFL CDMDVFDAYL PWRRNISDLF QWAVSRALCS PPVCEAFARG NISSEEVCKP LCATRPFGLA QEACSSYSHV VLKEVRFFNL QVLYPLLSDP ALNLRIVHLV RDPRAVLRSR EQTAKALARD NGIVLGTNGT WVEADPRLRV VNEVCRSHVR IAEAALHKPP PFLQDRYRLV RYEDLARDPL TVIRELYAFT GLGLTPQLQT WIHNITHGSG PGARREAFKT TSRDALSVSQ AWRHTLPFAK IRRVQELCGG ALQLLGYRSV HSELEQRDLS LDLLLPRGMD SFKWASSTEK QPES
Purity:	> 90% by SDS - PAGE
Endotoxin Level:	< 1 EU per 1ug of protein (determined by LAL method)
Biological Activity Comment:	Specific activity is > 10,000 pmol/min/ug, and is defined as the amount of enzyme that sulfate

Product Details

from PAPS to N-acetyl-D-glucosamine per minute at pH 7.5, at 37°C.

Target Details

Target:	CHST5
Alternative Name:	CHST5 (CHST5 Products)
Background:	CHST5, also known as Carbohydrate sulfotransferase 5, is a Golgi-embedded enzyme that is found in T cells, B cells and intestinal epithelium. This sulfotransferase 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. It also mediates sulfation of keratan in cornea. It acts on the non-reducing terminal GlcNAc of short and long carbohydrate substrates that have poly-N-acetyllactosamine structures. It may also have activity toward O-linked sugars of mucin-type acceptors. There is no CHST6 found in the mouse genome it is possible that mouse CHST5 plays a similar biological role to the human CHST6. Recombinant mouse CHST5, fused to His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.
Molecular Weight:	42.9kDa (380aa)
NCBI Accession:	NP_064334
Pathways:	Glycosaminoglycan Metabolic Process

Application Details

Application Notes:	Optimal working dilution should be determined by the investigator.
Restrictions:	For Research Use only

Handling

Format:	Liquid
Concentration:	0.25 mg/mL
Storage:	4 °C,-20 °C,-80 °C
Storage Comment:	Can be stored at +2°C to +8°C for 1 week. For long term storage, aliquot and store at -20°C to -80°C. Avoid repeated freezing and thawing cycles.