Product Data Sheet

Product Name:	CHST5 Human
Cat. No.:	GP26140
Batch No.:	1

Product Data

Purity	>98%	Source	Sf9, Baculovirus cells.
Phycical Appearance	solid	Shipping Condition	withIcePacks
Synonyms	Carbohydrate sulfotransferase 5, Galactose/N-acetylglucosamine/N-acetylglucosamine 6-O-sulfotransferase 4, GST4, Intestinal N-acetylglucosamine-6-O-sulfotransferase, I-GlcNAc6ST, Intestinal GlcNAc-6-sulfotransferase, mIGn6ST, N-acetylglucosamine 6-O-sulfotransferase 3, GlcNAc6ST-3, Gn6st-3, Chst5, Gst4.		
Amino Acid Sequence	ADPEFSRQVP SSPAGLGERV HVLVLSSWRS GSSFVGQLFS QHPDVFYLME 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 QPESHHHHHH		
Formulation	CHST5 protein solution (0.25mg/ml) containing 20% glycerol and Phosphate-Buffered Saline (pH 7.4).		

Introduction

Carbohydrate Sulfotransferase 5 (CHST5) is a Golgi-embedded enzyme that is found inB cells, T cells and intestinal epithelium and is also mediates sulfation of keratan in cornea. CHST5 is a 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 residues of keratan. CHST5 works on the non-reducing terminal GlcNAc of short andlong carbohydrate substrates that have poly-N-acetyllactosamine structures.

Biological Activity

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Specific activity is greater than 10,000 pmol/min/ug, and is defined as the amount of enzyme that sulfate from PAPS to Nacetyl-D-glucosamine per minute at pH 7.5, at 37?C.

Stability

Store at 4°C if entire vial will be used within 2-4 weeks.Store, frozen at -20°C for longer periods of time.For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA).Avoid multiple freeze-thaw cycles.

Background

CHST5 Human produced in Sf9 Baculovirus cells is a single, glycosylated polypeptide chain containing 380 amino acids (27-395 a.a.) and having a molecular mass of 42.9kDa.CHST5 is expressed with a 6 amino acid His tag at C-Terminus and purified by proprietary chromatographic techniques.

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