

32-13684: CHST5 Human

Format : CHST5 protein solution (0.25mg/ml) containing 20% glycerol and Phosphate-Buffered Saline (pH 7.4).
Alternative Name : 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.

Description

Source:Sf9, Baculovirus cells.

Physical Appearance: Sterile filtered colorless solution.

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

Carbohydrate Sulfotransferase 5 (CHST5) is a Golgi-embedded enzyme that is found in B 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 and long carbohydrate substrates that have poly-N-acetylglucosamine structures.

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.

Product Info

Amount : 10 µg / 2 µg
Purification : Greater than 90.0% as determined by SDS-PAGE.
Storage condition : 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.
Amino Acid : ADPEFSRQVP SSPAGLGERV HVLVLLSSWRS GSSFVQQLFS QHPDVFYLM E PAWHVWDTLS
QGSAPALHMA VRDLIRSVFL CDMDVFDAYL PWRRNISDLF QWAVSRALCS PPVCEAFARG NISSEEVCKP
LCATRPFGLA QEACSSYSHV VLKEVRFN L QVLYPLSDP ALNLRIVHLV RDPRAVLRSR EQTAKALARD
NGIVLGTNGT WVEADPRLRV VNEVCRSHVR IAEAALHKPP PFLQDRYRLV RYEDLARDPL TVIRELYAFT
GLGLTPQLQT WIHNITHGSG PGARREAFKT TSRDALSVSQ AWRHTLPFAK IRRVQELCGG ALQLLGYRSV
HSELEQRDLS LDLLLPRGMD SFKWASSTEK QPESHHHHHH