
Product Data Sheet

Product Name: CHST3 Human
 Cat. No.: GP26139
 Batch No.: 1

Product Data

| | | | |
|---------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|-------------------------|
| Purity | >98% | Source | Sf9, Baculovirus cells. |
| Physical Appearance | solid | Shipping Condition | withIcePacks |
| Synonyms | Carbohydrate sulfotransferase 3, Chondroitin 6-O-sulfotransferase 1, C6ST-1, Chondroitin 6-sulfotransferase, GST-0, CHST3, CHST-3, C6ST1HSD. | | |
| Amino Acid Sequence | ADLEKENKII SRVSDKLKQI PQALADANST DPALILAENA SLLSLELDS AFSQLQSRLR NLSLQLGVEP AMEAAGEEEE EQRKEEPPR PAVAGPRRHV LLMATTRTGS SFVGEFFNQQ GNIFYLFEPL WHIERTVSFE PGGANAAGSA LVYRDVLKQL FLCDLVLEH FITPLPEDHL TQFMFRRGSS RSLCEDPVCT PFVKKVFEKY HCKNRRCGPL NVTLAAEACR RKEHMALKAV RIRQLEFLQP LAEDPRDLR VIQLVRDPRA VLASRMVAFA GKYKTWKKWL DDEGQDGLRE EEVQRLRGNC ESIRLSAELG LRQPAWLRGR YMLVRYEDVA RGPLQKAREM YRFAGIPLTP QVEDWIQKNT QAAHDGSGIY STQKNSSEQF EKWRFSMPFK LAQVVQAACG PAMRLFGYKL ARDAAALTNR SVSLLLEERGTFWVTHHHHHH. | | |
| Formulation | CHST3 protein solution (0.25mg/ml) contains Phosphate buffered saline (pH7.4) and 10% glycerol. | | |

Introduction

Carbohydrate Sulfotransferase 3 (CHST3) belong to sulfotransferase 1 family which includes 14 enzymes that all members are Golgi-localized type II membrane proteins. These enzymes utilizes 3'-phospho-5'-adenylyl sulfate (PAPS) as sulfonate donor to catalyze the transfer of sulfate to position 6 of the N-acetylgalactosamine (GalNAc) residue of chondroitin. CHST3 can also sulfate Gal residues of keratan sulfate and Gal residues in sialyl N-acetyllactosamine (sialyl LacNAc) oligosaccharides. CHST3 is expressed in heart, placenta, skeletal muscle and pancreas. CHST3 takes part in maintenance of naive T-lymphocytes in the spleen.

Biological Activity

Caution: Product has not been fully validated for medical applications. For research use only.

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA

Product Data Sheet

Specific activity is greater than 1,000 pmol/min/ug, and is defined as the amount of enzyme that sulfate from PAPS to Chondroitin Sulfate per minute at pH 7.5, at 25C.

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

CHST3 produced in Sf9 Baculovirus cells is a single, glycosylated polypeptide chain containing 450 amino acids (39-479.a.a) and having a molecular mass of 51.3kDa. CHST3 is expressed with a 6 amino acid His tag at C-Terminus and purified by proprietary chromatographic techniques.

Caution: Product has not been fully validated for medical applications. For research use only.

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA