Active Recombinant Mouse Chst5 Protein, His-tagged

Cat. No. Chst5-06M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant mouse CHST5 (27-395aa), fused to His-tag at C terminus, was expressed in insect cell and purified by using conventional chromatography techniques.
Species	Mouse
Source	Insect Cells
ProteinLength	27-395 a.a.
Description	The protein encoded by this gene belongs to the Gal/GalNAc/GlcNAc 6-O-sulfotransferase (GST) family, members of which catalyze the transfer of sulfate to position 6 of galactose (Gal), N-acetylgalactosamine (GalNAc), or N-acetylglucosamine (GlcNAc) residues within proteoglycans, and sulfation of O-linked sugars of mucin-type acceptors. Carbohydrate sulfation plays a critical role in many biologic processes. This gene is predominantly expressed in colon and small intestine.
Form	Liquid
Bio-activity	Specific activity is > 10,000 pmol/min/μg, 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 centigrade.
Molecular Mass	42.9kDa (380aa)

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

AA Sequence	SRQVPSSPAGLGERVHVLVLSSWRSGSSFVGQLFSQHPDVFYLMEPAWHVWDTLS QGSAPALHMAVRDLIRSVFLCDMDVFDAYLPWRRNISDLFQWAVSRALCSPPVCEA FARGNISSEEVCKPLCATRPFGLAQEACSSYSHVVLKEVRFFNLQVLYPLLSDPALN LRIVHLVRDPRAVLRSREQTAKALARDNGIVLGTNGTWVEADPRLRVVNEVCRSHV RIAEAALHKPPPFLQDRYRLVRYEDLARDPLTVIRELYAFTGLGLTPQLQTWIHNITH GSGPGARREAFKTTSRDALSVSQAWRHTLPFAKIRRVQELCGGALQLLGYRSVHSE LEQRDLSLDLLLPRGMDSFKWASSTEKQPES
Endotoxin	< 1 EU/μg of protein (determined by LAL method)
Purity	> 90% by SDS-PAGE
Applications	SDS-PAGE, Enzyme Activity
Storage	Can be stored at +2 to +8 centigrade for 1 week. For long term storage, aliquot and store at -20 to -80 centigrade. Avoid repeated freezing and thawing cycles.
Concentration	0.25 mg/mL (determined by Bradford assay)
Storage Buffer	In Phosphate-Buffered Saline (pH 7.4) containing 20% glycerol

GENE INFORMATION

Gene Name	Chst5 carbohydrate (N-acetylglucosamine 6-O) sulfotransferase 5 [Mus musculus (house mouse)]
Official Symbol	Chst5
Synonyms	Chst5; carbohydrate (N-acetylglucosamine 6-O) sulfotransferase 5; GST-; GST-4; I-GlcN; Gn6st-3; AI173964; I-GlcNAc-6-ST; carbohydrate sulfotransferase 5; GST4; I-GlcNAc6ST; N-acetylglucosamine 6-O-sulfotransferase 3; galactose/N-

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	acetylglucosamine/N-acetylglucosamine 6-O-sulfotransferase 4; glcNAc6ST-3; intestinal GlcNAc-6-sulfotransferase; intestinal N-acetylglucosamine-6-O-sulfotransferase; mIGn6ST; EC 2.8.2.-
Gene ID	56773
mRNA Refseq	NM_019950
Protein Refseq	NP_064334
UniProt ID	Q9QUP4
SDS-PAGE	3 μg by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

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