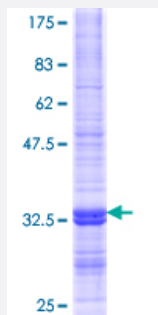


CHST5 (Human) Recombinant Protein (Q01)

Catalog # H00023563-Q01

Size 25 ug, 10 ug

Applications



Specification

Product Description	Human CHST5 partial ORF (NP_036258.1, 310 a.a. - 390 a.a.) recombinant protein with GST-tag at N-terminal.
Sequence	GSGIGKPIEAFHTSSRNARNVSQAWRHALPFTKILRVQEV CAGALQLLG YRPVYSADQQRDLTLDL VLPRGPDHFSWASPD
Host	Wheat Germ (in vitro)
Theoretical MW (kDa)	34.65
Preparation Method	in vitro wheat germ expression system
Purification	Glutathione Sepharose 4 Fast Flow
Quality Control Testing	12.5% SDS-PAGE Stained with Coomassie Blue.
Storage Buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.
Storage Instruction	Store at -80°C. Aliquot to avoid repeated freezing and thawing.
Note	Best use within three months from the date of receipt of this protein.

Applications

- Enzyme-linked Immunoabsorbent Assay
- Western Blot (Recombinant protein)
- Antibody Production
- Protein Array

Gene Info — CHST5

Entrez GeneID [23563](#)

GeneBank Accession# [NM_012126](#)

Protein Accession# [NP_036258.1](#)

Gene Name CHST5

Gene Alias FLJ22167, IGlcNAc-6-ST, MGC74625

Gene Description carbohydrate (N-acetylglucosamine 6-O) sulfotransferase 5

Omim ID [604817](#)

Gene Ontology [Hyperlink](#)

Gene Summary

The carbohydrates of glycoconjugates are highly diverse structures with variation in monosaccharide composition, glycosidic linkage positions, and branching of chains. Further diversity is added by the covalent addition of sulfate moieties to particular hydroxyl groups and amino groups of saccharides. The sulfate modifications of glycoproteins can be extensive in amount and frequently occur at high density. They can have a profound effect on the physiochemical properties of the glycoconjugates, at least in part through the addition of negative charge. Carbohydrate sulfation plays a critical role in many biologic processes. CHST5 belongs to the GST family of sulfotransferases, which also includes CHST1 (MIM 603797), CHST2 (MIM 603798), CHST3 (MIM 603799), and LSS T. These enzymes are 6-O-sulfotransferases, which add sulfate to C6 of galactose (Gal), N-acetylgalactosamine (GalNAc), or N-acetylglucosamine (GlcNAc) (Lee et al., 1999 [PubMed 10491328]).[supplied by OMIM]

Other Designations N-acetylglucosamine 6-O-sulfotransferase|OTTHUMP00000174950|intestinal GlcNAc-6-sulfotransferase

Disease

- [Adenocarcinoma](#)
- [Esophageal Neoplasms](#)
- [Genetic Predisposition to Disease](#)
- [Kidney Failure](#)