

Recombinant Human CHST12, His-tagged

Cat. No. CHST12-11225H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human CHST12 protein, fused to His-tag, was expressed in E.coli and purified by Ni-sepharose.
Species	Human
Source	E.coli
ProteinLength	64-414a.a.
Description	The protein encoded by this gene belongs to the sulfotransferase 2 family. It is localized to the golgi membrane, and catalyzes the transfer of sulfate to position 4 of the N-acetylgalactosamine (GalNAc) residue of chondroitin and desulfated dermatan sulfate. Chondroitin sulfate constitutes the predominant proteoglycan present in cartilage, and is distributed on the surfaces of many cells and extracellular matrices. Alternatively spliced transcript variants differing only in their 5 UTRs have been found for this gene.
Storage	The protein is stored in PBS buffer at -20°C. Avoid repeated freezing and thawing cycles.
Storage Buffer	1M PBS (58mM Na ₂ HPO ₄ , 17mM NaH ₂ PO ₄ , 68mM NaCl, pH8.) added with 300mM Imidazole and 0.7% Sarcosyl, 15% glycerol.

GENE INFORMATION

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Gene Name	CHST12 carbohydrate (chondroitin 4) sulfotransferase 12 [Homo sapiens]
Official Symbol	CHST12
Synonyms	CHST12; carbohydrate (chondroitin 4) sulfotransferase 12; carbohydrate sulfotransferase 12; C4S 2; C4ST2; sulfotransferase Hlo; chondroitin 4-sulfotransferase 2; chondroitin 4-O-sulfotransferase 2; C4S-2; C4ST-2;
Gene ID	55501
mRNA Refseq	NM_001243794
Protein Refseq	NP_001230723
MIM	610129
UniProt ID	Q9NRB3
Chromosome Location	7p22
Pathway	Glycosaminoglycan biosynthesis - chondroitin sulfate, organism-specific biosystem; Glycosaminoglycan biosynthesis - chondroitin sulfate, conserved biosystem; Sulfur metabolism, organism-specific biosystem; Sulfur metabolism, conserved biosystem; chondroitin sulfate biosynthesis, organism-specific biosystem; chondroitin sulfate biosynthesis, conserved biosystem; chondroitin sulfate biosynthesis (late stages), organism-specific biosystem;
Function	3-phosphoadenosine 5-phosphosulfate binding; chondroitin 4-sulfotransferase activity; sulfotransferase activity; transferase activity;