Active Recombinant Human CHST3 Protein, His-tagged

Cat. No. CHST3-01H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human CHST3 protein (39-479aa), fused to His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.
Species	Human
Source	Insect cells
ProteinLength	450aa
Description	This gene encodes an enzyme which catalyzes the sulfation of chondroitin, a proteoglycan found in the extracellular matrix and most cells which is involved in cell migration and differentiation. Mutations in this gene are associated with spondylepiphyseal dysplasia and humerospinal dysostosis.
Form	Liquid
Bio-activity	Specific activity is > 1,000 pmol/min/μg, and is defined as the amount of enzyme that sulfate from PAPS to Chondroitin Sulfate per minute at pH 7.5, at 25 centigrade.
Molecular Mass	51.3kDa
AA Sequence	EKENKIISRVSDKLKQIPQALADANSTDPALILAENASLLSLSELDSAFSQLQSRLRNL SLQLGVEPAMEAAGEEEEEQRKEEEPPRPAVAGPRRHVLLMATTRTGSSFVGEFF NQQGNIFYLFEPLWHIERTVSFEPGGANAAGSALVYRDVLKQLFLCDLYVLEHFITPL

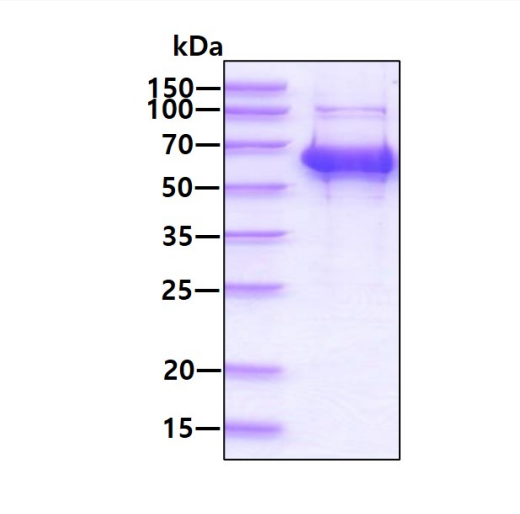
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	PEDHLTQFMFRRGSSRSLCEDPVCTPFVKKVFEKYHCKNRRCGPLNVTLAAEACRR KEHMALKAVRIRQLEFLQPLAEDPRLDLRVIQLVRDPRAVLASRMVAFAGKYKTWKK WLDDEGQDGLREEEVQRLRGNCESIRLSAELGLRQPAWLRGRYMLVRYEDVARGP LQKAREMYRFAGIPLTPQVEDWIQKNTQAAHDGSGIYSTQKNSSEQFEKWRFSMPF KLAQVVQAACGPAMRLFGYKLARDAAALTNRSVSLLEERGTFWVT
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
Storage Buffer	In Phosphate-Buffered Saline (pH 7.4) containing 10% glycerol

GENE INFORMATION

Gene Name	CHST3 carbohydrate sulfotransferase 3 [Homo sapiens (human)]
Official Symbol	CHST3
Synonyms	CHST3; carbohydrate sulfotransferase 3; carbohydrate sulfotransferase 3; C6ST-1; GST-0; carbohydrate (chondroitin 6) sulfotransferase 3; chondroitin 6 sulfotransferase 1; chondroitin 6-O-sulfotransferase 1; galactose/N-acetylglucosamine/N-acetylglucosamine 6-O-sulfotransferase 0; EC 2.8.2.17
Gene ID	9469

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mRNA Refseq	NM_004273.5
Protein Refseq	NP_004264
MIM	603799
UniProt ID	Q7LGC8
SDS-PAGE	 3 μg by SDS-PAGE under reducing condition and visualized by coomassie blue stain

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