

Recombinant Human GUSB

Cat. No. GUSB-27205TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full length Human beta glucuronidase with N terminal proprietary tag, 95.41kDa.
Species	Human
Source	Wheat Germ
ProteinLength	630 amino acids
Description	This gene encodes a hydrolase that degrades glycosaminoglycans, including heparan sulfate, dermatan sulfate, and chondroitin-4,6-sulfate. The enzyme forms a homotetramer that is localized to the lysosome. Mutations in this gene result in mucopolysaccharidosis type VII. There are many pseudogenes of this locus in the human genome.
Molecular Weight	95.410kDa inclusive of tags
Form	Liquid
Purity	Proprietary Purification
Storage buffer	pH: 8.00Constituents:0.3% Glutathione, 0.79% Tris HCl
Storage	Shipped on dry ice. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.

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Sequences of amino acids

GLQGGMLYPQESPSRECKELDGLWSFRADFSNRRRGFEE QWYRRPLWESGPT
 VDMPVPSSFNDISQDWRLRHFGVWWY EREVILPERWTQDLRTRVLRIGSAHSY
 AIVWVNGVDTL EGGYLPFEADISNLVQVGPLPSRLRITIAINNTLTPTTL PPGTIQY
 LTDTSKYPKGYFVQNTYFDFNYAGLQRSVLLY TTPTTYIDDITVTTTSVEQDSGLVNY
 QISVKGSNLFKLEVR LLDAENKVVANGTGTQGQLKVPGVSLWWPYLMHERPAYLY
 SLEVQLTAQTS LGPVSDFYTLPGVIRTVAVTKSQFLINGK PFYFHGVNKHEDADIRG
 KGFDWPLLVKDFNLLRWLGANAF RTSHYPYAEVMMQCDRYGIVVIDECPGVGLA
 LPQFFNNV SLHHHMQVMEEVVRDKNHPAVMMWSVANEPASHLESAGY YLKMVI
 AHTKSLDPSRPVTFVSNSNYAADKGAPYVDVICL NSYYSWYHDYGHLELIQLQLAT
 QFENWYKKYQKPIIQSEY GAETIAGFHQDPPLMFTEEYQKSLLQYHLGLDQKRRK
 YV VGELIWNFADFMTEQSPTRVLGNKKGIFTRQRQPKSAAFL LRERYWKIANETRY
 PHSVAKSQCLENSLFT

Sequence Similarities

Belongs to the glycosyl hydrolase 2 family.

GENE INFORMATION

Gene Name	GUSB glucuronidase, beta [Homo sapiens]
Official Symbol	GUSB
Synonyms	GUSB; glucuronidase, beta; beta-glucuronidase;
Gene ID	2990
mRNA Refseq	NM_000181
Protein Refseq	NP_000172
MIM	611499

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Uniprot ID	P08236
Chromosome Location	7q11.21
Pathway	Ascorbate biosynthesis, animals, glucose-1P => ascorbate, organism-specific biosystem; Ascorbate biosynthesis, animals, glucose-1P => ascorbate, conserved biosystem; Chondroitin sulfate degradation, organism-specific biosystem;
Function	beta-glucuronidase activity; cation binding; sugar binding;

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