

Active Recombinant Human GUSB Protein

Cat. No. GUSB-001H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant human GUSB protein containing 635 amino acids (23-651a.a) fused to a 6 amino acid His-tag at C-terminus was produced in Sf9 Baculovirus cells.
Species	Human
Source	Baculovirus
ProteinLength	23-651 a.a.
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.
Form	Sterile Filtered colorless solution
Bio-activity	Specific activity is > 1600 pmol/min/ug and is defined as the amount of enzyme that hydrolyze 1.0 pmole of 4-Methylumbelliferone to 4-Methylumbelliferyl-β-D-glucosiduronic acid per minute at 37 centigrade and pH6.0.
Molecular Mass	73.4 kDa
AA Sequence	LQGGMLYPQESPSRECKELDGLWSFRADFSNRRRGFEEQWYRRPLWESGPTVD MPVPSSFNDISQDWRLRHFVGVVWYEREVILPERWTQDLRTRVVLRIGSAHSYAIV WVNGVDTLEHEGGYLPFEADISNLVQVGPLPSRLRITIAINNTLTPTTLPPGTIQYLTD

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TSKYPKGYFVQNTYFDFFFNYAGLQRSVLLYTTPTTYIDDITVTTTSVEQDSGLVNYQIS
 VKGSNLFKLEVRLLEDAENKVVANGTGTQGQLKVPVSLWWPYLMHERPAYLYSLE
 VQLTAQTSGLPVSDFYTLPGVIRTVAVTKSQFLINGKPFYFHGVNKHEDADIRGKGF
 DWPLLVKDFNLLRWLGANAFRTSHYPYAEEMQMCDRYGIVVIDECPGVGLALPQF
 FNNVSLHHHMQVMEEVRRDKNHPAVVMWSVANEPASHLESAGYYLKMVIAHTKS
 LDPSRPVTFVSNSNYAADKGAPYVDVICLNSYYSWYHDYGHLELIQLQLATQFENW
 YKKYQKPIIQSEYGAETIAGFHQDPPLMFTEEYQKSLLEQYHLGLDQKRRKYVVGELI
 WNFADFMTEQSPTRVLGNKKGIFTRQRQPKSAAFLLRERYWKIANETRYPHSVAKS
 QCLENSLFTHHHHHH

Purity Greater than 90.0% as determined by SDS-PAGE.

Usage This products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.

Storage Store at 4 centigrade if entire vial will be used within 2-4 weeks. Store, frozen at -20 centigrade for longer periods of time.
 For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

Storage Buffer GUSB protein solution (0.25 mg/ml) containing Phosphate Buffered Saline (pH 7.4) and 10% glycerol.

GENE INFORMATION

Gene Name GUSB glucuronidase beta [Homo sapiens (human)]

Official Symbol GUSB

Synonyms GUSB; glucuronidase beta; BG; MPS7; beta-glucuronidase; beta-D-glucuronidase;

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beta-G1; EC 3.2.1.31

Gene ID [2990](#)

mRNA Refseq [NM_000181](#)

Protein Refseq [NP_000172](#)

MIM [611499](#)

UniProt ID [P08236](#)

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