

Recombinant Full Length Human GUSB Protein, C-Flag-tagged

Cat. No. GUSB-2155HFL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length Human GUSB Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.
Species	Human
Source	Mammalian Cells
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. Alternative splicing results in multiple transcript variants. There are many pseudogenes of this locus in the human genome.
Form	25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.
Molecular Mass	72.5 kDa
AA Sequence	MARGSAVAWAALGPLLWGCALGLQGGM LYPQESPSRECKELDGLWSFRADFSDN RRRGFEEQWYRRPLWE SGPTVDMPVPSSFNDISQDWRLRHFVGVVWYEREVILP ERWTQDLRTRVVL RIGSAHSYAIVWVNGVDTL EHEGGYLPFEADISNLVQVGPLPS RLRITIAINNTLTPTTLPPGTIQYLTDTSKYPKGYFVQNTYFDFFN YAGLQRSVLLYTT PTTYIDDITVTTTSVEQDSGLVNYQISVKGSNLFKLEVRLLDAENKVVANGTGTQGQL KVPGVSLWWPYLMHERPAYLYSLEVQLTAQTS LGPVSDFYTLPGVIRTVAVTKSQFL INGKPFYFHGVNK HEDADIRGKGFDWPLLVKDFNLLRWLGANAFRTSHYPYAEVVM QMCDRYGIVVIDECPGVGLALPQFFNN VSLHHHMQVMEEVVRRDKNHPAVVMWS

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

VANEPASHLESAGYYLKMVIAHTKSLDPSRPVTFVSNSNYAAD KGAPYVDVICLNSY
 YSWYHDYGHLELIQLQLATQFENWYKKYQKPIIQSEYGAETIAGFHQDPPLMFTEE Y
 QKSLLQYHLGLDQKRRKYVVGELIWNFADFMTEQSPTRVLGNKKGIFTRQRQPKS
 AAFLLRERYWKIA NETRYPHSVAKSQCLENSLFT TRTRPLEQKLISEEDLAANDILD
 YKDDDDKV

Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining.
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade.
Concentration	>50 ug/mL as determined by microplate BCA method.
Preparation	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Protein Families	Druggable Genome, Transmembrane
Protein Pathways	Drug metabolism - other enzymes, Glycosaminoglycan degradation, Lysosome, Metabolic pathways, Pentose and glucuronate interconversions, Porphyrin and chlorophyll metabolism, Starch and sucrose metabolism
Full Length	Full L.

GENE INFORMATION

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

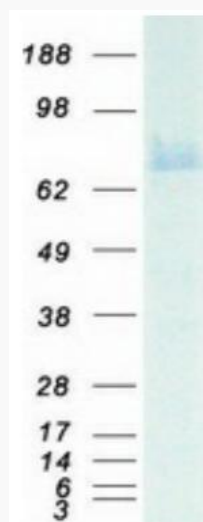
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Synonyms	BG; MPS7
Gene ID	2990
mRNA Refseq	NM_000181.4
Protein Refseq	NP_000172.2
MIM	611499
UniProt ID	P08236



Coomassie blue staining of purified GUSB protein.

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