

Recombinant Human GUSB Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. GUSB-5742H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	GUSB MS Standard C13 and N15-labeled recombinant protein (NP_000172) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
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.
Molecular Mass	74.7 kDa
AA Sequence	MARGSAVAWAALGPLLWGCALGLQGGMLYPQESPSRECKELDGLWSFRADFSDN RRRGFEEQWYRRPLWESGPTVDMVPSSFNDISQDWRLRHFVGWWYEREVILP ERWTQDLRTRVVLRIGSAHSYAIVWVNGVDLTLEHEGGYLPFEADISNLVQVGPLPSR LRITIAINNTLTPTTLPPGTIQYLTDTSKYPKGYFVQNTYFDFFNAGLQRSVLLYTTPT TYIDDITVTTTSVEQDSGLVNYQISVKGSNLFKLEVRLLDAENKVVANGTGTQGQLKVP GVSLWWPYLMHERPAYLYSLEVQLTAQTS LGPVSDFYTLPGVIRTAVTKSQFLING KPFYFHGVNKHEDADIRGKGFDPVLLVKDFNLLRWLGANAFRTSHYPYAAEEVMQM CDRYGIVVIDECPGVGLALPQFFNNVSLHHHMQVMEEVVRDKNHPAVVMWSVAN

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EPASHLESAGYYLKMVIAHTKSLDPSRPVTFVSNSNYAADKGAPYVDVICLNSYYSW
YHDYGHLELIQLQLATQFENWYKKYQKPIIQSEYGAETIAGFHQDPPLMFTEEYQKSL
LEQYHLGLDQKRRKYVVGELIWNFADFMTESPTRVLGNNKGIFTRQRQPKSAAFL
LRERYWKIANETRYPHSVAKSQCLENSLFTTRTRPLEQKLISEEDLAANDILDYKDDD
DKV

Purity > 80% as determined by SDS-PAGE and Coomassie blue staining

Stability Stable for 3 months from receipt of products under proper storage and handling conditions.

Storage Store at -80 centigrade. Avoid repeated freeze-thaw cycles.

Concentration 50 µg/mL as determined by BCA

Storage Buffer 100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

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

Official Symbol GUSB

Synonyms GUSB; glucuronidase, beta; beta-glucuronidase; beta-G1; beta-D-glucuronidase; BG; MPS7; FLJ39445;

Gene ID 2990

mRNA Refseq NM_000181

Protein Refseq NP_000172

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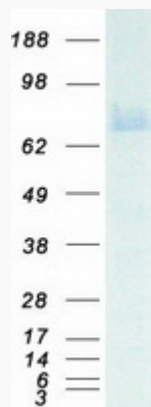
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MIM 611499

UniProt ID P08236

SDS-PAGE



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