

Product datasheet for PH304325

beta glucuronidase (GUSB) (NM_000181) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	GUSB MS Standard C13 and N15-labeled recombinant protein (NP_000172)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC204325
Predicted MW:	74.7 kDa
Protein Sequence:	>RC204325 protein sequence Red=Cloning site Green=Tags(s)

MARGSAVAWAALGPLLWGCALGLQGMLYPQESPSRECKELDGLWSFRADFSDNRRRGFEEQWYRRPLWE
SGPTVDMVPVSSFNDISQDWRLRHVGVWVYEREVILPERWTQDLRTRVVLRIQSAHSYAIWVNGVDTL
EHEGGYLPFEADISNLVQVGPLPSRLRITIAINNTLTPTLPPGTIQYLTDTSKYPKGYFVQNTYDFDFN
YAGLQRSVLLYTTPTYIDDITVTTTSVEQDSSLVNYQISVKGSNLFKLEVRLLDAENKVVANGTGTQGQL
KVPVSLWWPYLMHERPAYLSLEVQLTAQTSGLGPVSDFYTLPGVIRTVAVTKSQFLINGKPFYFHGVNK
HEDADIRKGFDPVLLVKDFNLLRWLGANAFRTSHYPYAEVVMQCDRYGIVVIDECPGVLALPQFFNN
VSLHHMQVMEEVVRDKNHPAVVMWSVANEPASHLESAGYYLKMVIAHTKSLDPSRPVTFVSNRYAAD
KGAPYVDVICLNSYYSWYHDYGHLELIQLQLATQFENWYKYPKPIIQSEYGAETIAGFHQDPLMFTTE
YQKSLLEQYHLGLDQKRRKYVVGELIWNFADFMTESPTRVLGNKKGIFTRQRQPKSAFLLRERYWKIA
NETRYPHSVAKSQCLENSLFT

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Labeling Method:	Labeled with [U- 13C6, 15N4]-L-Arginine and [U- 13C6, 15N2]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3
Storage:	Store at -80°C. Avoid repeated freeze-thaw cycles.
Stability:	Stable for 3 months from receipt of products under proper storage and handling conditions.
RefSeq:	NP_000172
RefSeq Size:	2321



[View online »](#)

RefSeq ORF: 1953

Synonyms: BG; MPS7

Locus ID: 2990

UniProt ID: [P08236](#)

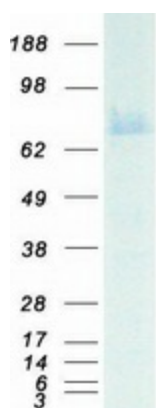
Cytogenetics: 7q11.21

Summary: 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.[provided by RefSeq, May 2014]

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

Product images:



Coomassie blue staining of purified GUSB protein (Cat# [TP304325]). The protein was produced from HEK293T cells transfected with GUSB cDNA clone (Cat# [RC204325]) using MegaTran 2.0 (Cat# [TT210002]).