

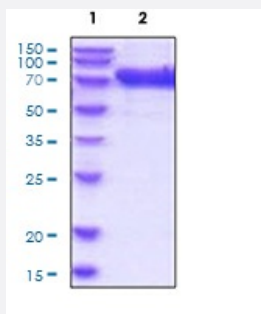
Bioactive

GUSB (Human) Recombinant Protein

Catalog # P7999

Size 20 ug

Applications



Specification

Product Description

Human GUSB (P08236, 23 a.a. - 651 a.a.) partial length recombinant protein with His tag expressed in Baculovirus expression system.

Sequence

LQGGMLYPQESPSRECKELDGLWSFRADFSDNRRRGFEEQWYRRPLWESGPTVDMPVPSSFN
DISQDWRLRHFGVWVWYEREVILPERWTQDLRTRVVLRIGSAHSYAMWVNGVDLEHEGGYLPF
EADISNLVQVGPLPSRLRITAIINNTLTPTTLPPGTIQYLTDTSKYPKGYFVQNTYDFFNYAGLQRSV
LLYTTPTTYIDITVTSVEQDSGLVNYQISVKGSNLFKLEVRLDAENKVVANGTGTQGQLKVP
SLWWPYLMHERPAYLYSLEVQLTAQTS LGPVSDFYTLPGVIRTVAVTKSQFLINGKPFYFHGVNKH
EDADIRGKGFDWPLLVKDFNLLRWLGANAFRTSHYPYAEVVMQCDRYGIVVIDECPGVGLALP
QFFNNVSLHHMQVMEEVVRDKNHPAVVMWSVANEPASHLESAGYYLKMVIAHTKSLDPSRP
VTFVSNNSYAADKGAPYVDVCLNSYYSWYHDYGHLELIQLQLATQFENWYKKYQKPIIQSEYGAETI
AGFHQDPPLMFTEEYQKSLLEQYHLGLDQKRRKYVVGELIWNFADFMTEQSPTRVLGNKKGIFTR
QRQPKSAAFLRERYWKIANETRYPHSVAKSQCLENSLFT

Host

Viruses

Theoretical MW (kDa)

73.40000000000001

Form

Liquid

Preparation Method

Baculovirus expression system

Purity

> 90% by SDS-PAGE

Endotoxin Level	< 1 EU per 1 ug of protein (determined by LAL method)
Activity	Specific activity is > 4000 pmol/min/ug, and is defined as the amount of enzyme that hydrolyze 1.0 p mole of 4-Methylumbelliferone to 4-Methylum-belliferyl-beta-D-glucosiduronic acid per minute at 37° C and pH 6.0.
Quality Control Testing	3 ug by SDS-PAGE under reducing condition and visualized by Coomassie blue stain.
Storage Buffer	In Phosphate-Buffer Saline pH 7.4 (10% glycerol)
Storage Instruction	Store at 2°C to 8°C for 1 week. For long term storage, aliquot and store at -20°C to -80°C. Aliquot to avoid repeated freezing and thawing.

Applications

- Functional Study
- SDS-PAGE

Gene Info — GUSB

Entrez GeneID	2990
Protein Accession#	P08236
Gene Name	GUSB
Gene Alias	FLJ39445, MPS7
Gene Description	glucuronidase, beta
Omim ID	253220 611499
Gene Ontology	Hyperlink
Gene Summary	The GUSB gene encodes beta-glucuronidase (EC 3.2.1.31), a lysosomal hydrolase involved in the stepwise degradation of glucuronic acid-containing glycosaminoglycans (Shipley et al., 1993 [PubMed 7680524]). It is a tetrameric glycoprotein composed of identical subunits (Oshima et al., 1987 [PubMed 3468507]). The GUSB gene is mutated in mucopolysaccharidosis type VII (MPS7; MIM 253220).[supplied by OMIM]
Other Designations	-

Pathway

- [Drug metabolism - other enzymes](#)
- [Glycosaminoglycan degradation](#)
- [Lysosome](#)
- [Metabolic pathways](#)
- [Pentose and glucuronate interconversions](#)
- [Porphyrin and chlorophyll metabolism](#)
- [Starch and sucrose metabolism](#)

Disease

- [Mucopolysaccharidosis VII](#)