

Recombinant human GUSB protein

Catalog Number: IBATGP3495



PRODUCT INFORMATION

Expression system

Baculovirus

Domain

23-651aa

UniProt No.

P08236

NCBI Accession No.

NP_000172.2

Alternative Names

Beta-glucuronidase isoform 1, GUSB, BG, MPS7

PRODUCT SPECIFICATION

Molecular Weight

73.4 kDa (635aa)

Concentration

0.25mg/ml (determined by absorbance at 280nm)

Formulation

Liquid in. Phosphate-Buffered Saline (pH 7.4) containing 10% glycerol

Purity

> 90% by SDS-PAGE

Endotoxin level

< 1 EU per 1ug of protein (determined by LAL method)

Biological Activity

Specific activity is > 4000pmol/min/ug and is defined as the amount of enzyme that hydrolyze 1.0pmole of 4-Methylumbelliferone to 4-Methylum-belliferyl-beta-D-glucosiduronic acid per minute at 37C and pH6.0

Tag

His-Tag

Application

SDS-PAGE, Enzyme Activity

Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

For research use only. This product is not intended or approved for human, diagnostics or veterinary use.

Manufactured for:

Immuno-Biological Laboratories, Inc. (IBL-America)

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Description

GUSB, also known as beta-glucuronidase isoform 1, is a lysosomal hydrolase involved in the stepwise degradation of glucuronic acid-containing glycosaminoglycans. It includes heparin sulfate, chondroitin sulfate and hyaluronan. Mutations in the GUSB are linked to mucopolysaccharidosis type VII. GUSB plays an important role in the degradation of dermatan and keratin sulfates. Recombinant human GUSB, fused to His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.

Amino acid Sequence

LQGGMLYPQE SPSRECKELD GLWSFRADFS DNRRRGFEEQ WYRRPLWESG PTVDMVPVSS FNDISQDWRL
RHFVGVVWYE REVILPERWT QDLRTRVLR IGSASYSIAIV WVNGVDTLEH EGGYLPFEAD ISNLVQVGPL PSRLRITIAI
NNTLTPTTLP PGTIQYLTDI SKYPKGYFVQ NTYDFDFNYA GLQRSVLLYT TPTTYIDDIT VTTSVEQDSG LVNYQISVKG
SNLFKLEVRL LDAENKVVAN GTGTQGQLKV PGVSLWWPYL MHERPAYLYS LEVQLTAQTS LGPVSDFYTL PVGIRTVAVT
KSQFLINGKP FYFHGVNKE DADIRGKGF D WPLLKDFNL LRWLGANAFR TSHYPYAEV MQMCDRYGIV VIDECPGVGL
ALPQFFNNVS LHHMQVMEE VVRRDKNHPA VVMWSVANEP ASHLESAGYY LKMVIAHTKS LDPSRPVTFV SNSNYAADKG
APYVDVICLN SYYSWYHDYG HLELIQLQLA TQFENWYKQY QKPIQSEYG AETIAGFHQD PPLMFTEEQY KSLLEQYHLG
LDQKRRKYVV GELIWNFADF MTEQSPTRVL GNKKGIFTRQ RQPKSAFFLL RERYWKIANE TRYPHSVAKS QCLENSLFT<H
HHHHH>

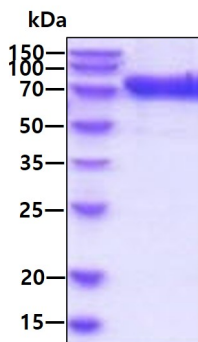
General References

Shipley JM., et al. (1993) Am J Hum Genet. 52:517-526.

Bell CE Jr., et al. (1977) J Clin Invest. 59:97-105.

DATA

SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

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