

Recombinant human Beta-glucuronidase/GUSB protein

Catalog Number: ATGP3495

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, Glucuronidase beta, Beta-G1

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 pH3.5

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

Recombinant human Beta-glucuronidase/GUSB protein

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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

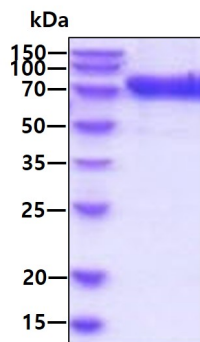
LQGGMLYPQE SPSRECKELD GLWSFRADFS DNRRRGFEEQ WYRRPLWESG PTVDMVPVSS FNDISQDWRL
 RHFVGVVWYE REVILPERWT QDLRTRVVLV IGSASHYAIV WVNGVDTLEH EGGYLPFEAD ISNLVQVGPL PSRLRITIAI
 NNTLTPTTLP PGTIQYLTDT SKYPKGYFVQ NTYFDFFNVA GLQRSVLLYT TPTTYIDDIT VTTSVEQDSG LVNYQISVKG
 SNLFKLEVRL LDAENKVVAN GTGTQGQLKV PGVSLWWPYL MHERPAYLYS LEVQLTAQTS LGPVSDFYTL PVGIRTVAVT
 KSQFLINGKP FYFHGVNKHE DADIRGKGF D WPLLKDFNL LRWLGANAFR TSHYPYAEV MQMCDRYGIV VIDECPGVGL
 ALPQFFNNVS LHHMQVMEE VVRRDKNHPA VVMWSVANEP ASHLESAGYY LKMVIAHTKS LDPSRPVTFV SNSNYAADKG
 APYVDVICLN SYYSWYHDYG HLELIQLQLA TQFENWYKKY QKPIIQSEYG AETIAGFHQD PPLMFTEEQ KSLLEQYHLG
 LDQKRRKYVV GELIWNFADF MTEQSPTRVL GNKKGIFTRQ RQPKSAAFL 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.