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 1pmole of 4-Methylum-belliferyl-beta-D-glucosiduronic acid to 4-Methylumbelliferone 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

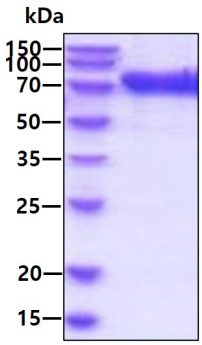
LQGGMLYPQE SPSRECKELD GLWSFRADFS DNRRRGFEEQ WYRRPLWESG PTVDMPVPSS FNDISQDWRL RHFVGWVWYE REVILPERWT QDLRTRVVLR IGSAHSYAIV WVNGVDTLEH EGGYLPFEAD ISNLVQVGPL PSRLRITIAI NNTLTPTTLP PGTIQYLTDT SKYPKGYFVQ NTYFDFFNYA GLQRSVLLYT TPTTYIDDIT VTTSVEQDSG LVNYQISVKG SNLFKLEVRL LDAENKVVAN GTGTQGQLKV PGVSLWWPYL MHERPAYLYS LEVQLTAQTS LGPVSDFYTL PVGIRTVAVT KSQFLINGKP FYFHGVNKHE DADIRGKGFD WPLLVKDFNL LRWLGANAFR TSHYPYAEEV MQMCDRYGIV VIDECPGVGL ALPQFFNNVS LHHHMQVMEE VVRRDKNHPA VVMWSVANEP ASHLESAGYY LKMVIAHTKS LDPSRPVTFV SNSNYAADKG APYVDVICLN SYYSWYHDYG HLELIQLQLA TQFENWYKKY QKPIIQSEYG AETIAGFHQD PPLMFTEEYQ KSLLEQYHLG LDQKRRKYVV GELIWNFADF MTEQSPTRVL GNKKGIFTRQ RQPKSAAFLL 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.