
Product Data Sheet

Product Name: GUSB Human

Cat. No.: GP21761

Batch No.: 1

Product Data

Purity >98% Source Sf9, Baculovirus cells.

Physical Appearance solid Shipping Condition Shipped with Ice Packs.

Synonyms GUSB; BG; MPS7; Glucuronidase Beta; EC 3.2.1.31; Beta-G1; Beta-D-Glucuronidase; Glucuronidase; Beta; Beta-Glucuronidasem.

LQGGMLYPQESPSRECKELD GLWSFRADFS DNRRRGFEEQ WYRRPLWESG
 PTVDMVPVSS FNDISQDWRL RHFVGVVWYEREVILPERWT QDLRTRVVL
 IGSAHSYAIW VVNGVDTLEH EGGYLPFEAD ISNLVQVGPL
 PSRLRITIAINNTLTPTTLP PGTIQYLTDI SKYPKGYFVQ NTYFDFFNIA
 GLQRSVLLYT TPTTYIDDIT VTTSVEQDSGLVNYQISVKG SNLFKLEVRL
 LDAENKVVAN GTGTQGQLKV PGVSLWWPYL MHERPAYLYS
 Amino Acid Sequence LEVQLTAQTSLGPVSDFYTL PVGIRTVAVT KSQFLINGKP FYFHGVNKHE
 DADIRGKGF D WPLLVKDFNL LRWLGANAFRTSHYPYAEV MQMCDRYGIV
 VIDECPGVGL ALPQFFNNVS LHHHMQVMEE VVRRDKNHPA
 VVMWSVANEPASHLESAGYY LKMVIAHTKS LDPSRPVTFV SNSNYAADKG
 APYVDVICLN SYYSWYHDYG HLELIQLQLATQFENWYKKY QKPIIQSEYG
 AETIAGFHQD PPLMFTEEYQ KSLLEQYHLG LDQKRRKYVV
 GELIWNFADFMTEQSPTRVL GNKKGIFTRQ RQPKSAAFL RERYWKIANE
 TRYPHSVAKS QCLENSLFTH HHHHH.

Formulation GUSB protein solution (0.25mg/ml) containing PhosphateBuffered Saline (pH 7.4) and 10% glycerol.

Introduction

GlucuronidaseBeta (GUSB) is a lysosomal hydrolase which is taking part in the stepwisegradation of glucuronic acid-containing glycosaminoglycans and plays a significantrole in the degradation of dermatan and keratin sulfates. GUSB is comprised ofheparin sulfate, chondroitin sulfate and hyaluronan.

Biological Activity

Caution: Product has not been fully validated for medical applications. For research use only.

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Specific activity is > 1600 pmol/min/ug and is defined as the amount of enzyme that hydrolyze 1.0 pmole of 4-Methylumbelliferone to 4-Methylumbelliferyl- β -D-glucosiduronic acid per minute at 37C and pH6.0.

Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

Background

GUSB Human Recombinant produced in Sf9 Baculovirus cells is a single, glycosylated polypeptide chain containing 635 amino acids (23-651a.a) and having a molecular mass of 73.4kDa (Molecular size on SDS-PAGE will appear at approximately 70-100kDa). GUSB is fused to a 6 amino acid His-tag at C-terminus & purified by proprietary chromatographic techniques.

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