Glucuronidase Beta (GUSbeta) ELISA Kit for Hamster

PRODUCT OVERVIEW

Product Name	Glucuronidase Beta (GUSbeta), ELISA Kit
Full Product Name	Hamster Glucuronidase Beta ELISA Kit
Product Gene Name	GUSbeta elisa kit
Species Reactivity	Hamster
Preparation and Storage	Store all reagents at 2-8 degree C
Molecular Weight	74,732 Da
OMIM	253220
3D Structure	ModBase 3D Structure for P08236
Related Product Information for GUSbeta elisa kit	MBS060731 is a ready-to-use microwell, strip plate ELISA (enzyme-linked immunosorbent assay) Kit for analyzing the presence of the Glucuronidase Beta (GUSbeta) ELISA Kit target analytes in biological samples. The concentration gradients of the kit standards or positive controls render a theoretical kit detection range in biological research samples containing GUSbeta. The ELISA analytical biochemical technique of the MBS060731 kit is based on GUSbeta antibody-GUSbeta antigen interactions (immunosorbency) and an HRP colorimetric detection system to detect GUSbeta antigen targets in samples. The ELISA Kit is designed to detect native, not recombinant, GUSbeta. Appropriate sample types may include undiluted body fluids and/or tissue homogenates, secretions. Quality control assays assessing reproducibility identified the intra-assay CV (%) and inter-assay CV(%).
Other Notes	Small volumes of GUSbeta elisa kit vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for GUSbeta. It may not necessarily be applicable to this product.

NCBI GI #	119628356
NCBI GeneID	2990
NCBI Accession #	EAX07951.1
UniProt Primary Accession #	P08236
UniProt Secondary Accession #	Q549U0; Q96CL9; B4E1F6; E9PCV0
UniProt Related Accession #	P08236
NCBI Official Full Name	glucuronidase, beta, isoform CRA_c
NCBI Official Synonym Full Names	glucuronidase, beta
NCBI Official Symbol	GUSB
NCBI Official Synonym Symbols	BG; MPS7
UniProt Protein Name	Beta-glucuronidase
UniProt Synonym Protein Names	Beta-G1
UniProt Gene Name	GUSB
UniProt Entry Name	BGLR_HUMAN

NCBI Protein Information	beta-glucuronidase; beta-G1; beta-D-glucuronidase
NCBI Summary for GUSbeta	This gene encodes a hydrolase that degrades glycosaminoglycans, including heparan sulfate, dermatan sulfate, and chondroitin-4,6-sulfate. The enzyme forms a homotetramer that is localized to the lysosome. Mutations in this gene result in mucopolysaccharidosis type VII. Alternative splicing results in multiple transcript variants. There are many pseudogenes of this locus in the human genome.[provided by RefSeq, May 2014]
UniProt Comments for GUSbeta	GUSB: Plays an important role in the degradation of dermatan and keratan sulfates. Defects in GUSB are the cause of mucopolysaccharidosis type 7 (MPS7); also known as Sly syndrome. MPS7 is an autosomal recessive lysosomal storage disease characterized by inability to degrade glucuronic acid-containing glycosaminoglycans. The phenotype is highly variable, ranging from severe lethal hydrops fetalis to mild forms with survival into adulthood. Most patients with the intermediate phenotype show hepatomegaly, skeletal anomalies, coarse facies, and variable degrees of mental impairment. Mucopolysaccharidosis type 7 is associated with non- immune hydrops fetalis, a generalized edema of the fetus with fluid accumulation in the body cavities due to non-immune causes. Non-immune hydrops fetalis is not a diagnosis in itself but a symptom, a feature of many genetic disorders, and the end-stage of a wide variety of disorders. Belongs to the glycosyl hydrolase 2 family. 2 isoforms of the human protein are produced by alternative splicing. Protein type: Carbohydrate Metabolism - starch and sucrose; EC 3.2.1.31; Cofactor and Vitamin Metabolism - porphyrin and chlorophyll; Xenobiotic Metabolism - drug metabolism - other enzymes; Carbohydrate Metabolism - pentose and glucuronate interconversions; Hydrolase; Glycan Metabolism - glycosaminoglycan degradation Chromosomal Location of Human Ortholog: 7q21.11 Cellular Component: lysosomal lumen; intracellular membrane-bound organelle; membrane Molecular Function: protein domain specific binding; beta-glucuronidase activity; receptor binding Biological Process: glycosaminoglycan catabolic process; glycosaminoglycan metabolic process; carbohydrate metabolic process; pathogenesis; hyaluronan metabolic process; hyaluronan catabolic process Disease: Mucopolysaccharidosis, Type Vii
Research Articles on GUSbeta	**1.** expression of CES2, UGTA1A1, and GUSB varies in colorectal pathology tissues and that the expression of CES2 is somewhat related to tumor staging.
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