Glutathione S-Transferase Mu 1 (GSTM1) Bovine Recombinant Protein

PRODUCT OVERVIEW

Product Name	Glutathione S-transferase Mu 1 (GSTM1), Recombinant Protein
Full Product Name	Recombinant Bovine Glutathione S-transferase Mu 1 (GSTM1)
Product Gene Name	GSTM1 recombinant protein
Product Synonym Gene Name	GSTM1
Sequence	PMILGYWDIR GLAHAIRLLL EYTDTNYEER QYSVGDAPDY DRSQWLNEKF KLGLDFPNLP YLIDGTHKLT QSNAILRYIA RKHNLCGETE EEMIRVDILE NQVMDVRLAM ARICYSPDFE KLKPGFLKEI PEKIKLFSEF LGKRPWFAGD KLTYVDFLVY DVLDMHRIFE PKCLDAFPNL KDFISRFEGL KKISAYMKSS RFLPGPLFMK LAVWGNK
Host	E Coli or Yeast or Baculovirus or Mammalian Cell
Form/Format	Lyophilized or liquid (Format to be determined during the manufacturing process)
Purity/Purification	Greater or equal to 85% purity as determined by SDS-PAGE. (lot specific)
Preparation and Storage	Store at -20 degrees C. For long-term storage, store at -20 degrees C or -80 degrees C. Store working aliquots at 4 degrees C for up to one week. Repeated freezing and thawing is not recommended.
Molecular Weight	25,635 Da
Sequence Positions	2-218, full length protein
Tag Information	This protein contains an N-terminal tag and may also contain a C-terminal tag. Tag types are determined by various factors including tag-protein stability, please inquire for tag information.
Sterility	Sterile filter available upon request.
Endotoxin	Low endotoxin available upon request.
3D Structure	ModBase 3D Structure for Q9N0V4
Species	Bovine
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for GSTM1 recombinant protein	Cytosolic and membrane-bound forms of glutathione S-transferase are encoded by two distinct supergene families. At present, eight distinct classes of the soluble cytoplasmic mammalian glutathione S-transferases have been identified: alpha, kappa, mu, omega, pi, sigma, theta and zeta. This gene encodes a glutathione S-transferase that belongs to the mu class. The mu class of enzymes functions in the detoxification of electrophilic compounds, including carcinogens, therapeutic drugs, environmental toxins and products of oxidative stress, by conjugation with glutathione. The genes encoding the mu class of enzymes are organized in a gene cluster on chromosome 1p13.3 and are known to be highly polymorphic. These genetic variations can change an individual s susceptibility to carcinogens and toxins as well as affect the toxicity and efficacy of certain drugs. Null mutations of this class mu gene have been linked with an increase in a number of cancers, likely due to an increased susceptibility to environmental toxins and carcinogens. Multiple protein isoforms are encoded by transcript variants of this gene.
Other Notes	Small volumes of GSTM1 recombinant protein 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.
Searchable Terms for GSTM1 purchase	MBS1332656 is a recombinant protein targeting GSTM1. Also known as Recombinant Bovine Glutathione S-transferase Mu 1 (GSTM1). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for GSTM1. It may not necessarily be applicable to this product.

NCBI GI #	28461273
NCBI GeneID	327709
NCBI Accession #	NP_787019.1
UniProt Primary Accession #	Q9N0V4
UniProt Related Accession #	Q9N0V4
GenBank Nucleotide #	NM_175825.3
NCBI Official Full Name	glutathione S-transferase Mu 1
NCBI Official Symbol	GSTM1
UniProt Protein Name	Glutathione S-transferase Mu 1
UniProt Synonym Protein Names	GST class-mu 1; GSTM1-1
Protein Family	Glutathione S-transferase
UniProt Gene Name	GSTM1
UniProt Synonym Gene Names	GSTM
NCBI Protein Information	glutathione S-transferase Mu 1
UniProt Comments for GSTM1	Conjugation of reduced glutathione to a wide number of exogenous and endogenous hydrophobic electrophiles. Protects against the thiol-mediated metal-catalysed oxidative inactivation of enzymes.
Research Articles on GSTM1	**1.** missense mutation (rs135955605) associated with significant decrease of sperm motility and ATP content
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
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