Glutathione S-Transferase Mu 5 (GSTM5) Rat Recombinant Protein

PRODUCT OVERVIEW

Product Name	Glutathione S-transferase Mu 5 (Gstm5), Recombinant Protein
Full Product Name	Recombinant Rat Glutathione S-transferase Mu 5 (Gstm5)
Product Gene Name	Gstm5 recombinant protein
Product Synonym Gene Name	Gstm5
Sequence	MSCSKSMVLG YWDIRGLAHA IRMLLEFTDT SYEEKQYTCG EAPDYDRSQW LDVKFKLDLD FPNLPYLMDG KNKITQSNAI LRYIARKHNM CGDTEEEKIR VDIMENQIMD FRMQLVRLCY NSNHESLKPQ YLEQLPAQLK QFSLFLGKFT WFAGEKLTFV DFLTYDVLDQ NRMFEPKCLD EFPNLKAFMC RFEALEKIAA FLQSDRCFKM PINNKMAKWG NKSIC
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	26,629 Da
Sequence Positions	1-225, 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 Q9Z1B2
Species	Rat
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for Gstm5 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. Diversification of these genes has occurred in regions encoding substrate-binding domains, as well as in tissue expression patterns, to accommodate an increasing number of foreign compounds.
Other Notes	Small volumes of Gstm5 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 Gstm5 purchase	MBS1482980 is a recombinant protein targeting Gstm5. Also known as Recombinant Rat Glutathione S-transferase Mu 5 (Gstm5). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for Gstm5. It may not necessarily be applicable to this product.

NCBI GI #	25282395
NCBI GeneID	64352
NCBI Accession #	NP_742035.1
UniProt Primary Accession #	Q9Z1B2
UniProt Related Accession #	Q9Z1B2
GenBank Nucleotide #	NM_172038.1
NCBI Official Full Name	glutathione S-transferase Mu 5
NCBI Official Synonym Full Names	glutathione S-transferase, mu 5
NCBI Official Symbol	Gstm5
UniProt Protein Name	Glutathione S-transferase Mu 5
UniProt Synonym Protein Names	GST class-mu 5
Protein Family	Glutathione S-transferase
UniProt Gene Name	Gstm5
NCBI Protein Information	glutathione S-transferase Mu 5
NCBI Summary for Gstm5	involved in conjugating GSH with a variety of electrophilic substrates [RGD, Feb 2006]
UniProt Comments for Gstm5	Conjugation of reduced glutathione to a wide number of exogenous and endogenous hydrophobic electrophiles.
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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