Glutathione S Transferase, Schistosoma Japonicum Recombinant Protein

PRODUCT OVERVIEW

Product Name	Glutathione S Transferase, Schistosoma japonicum, Recombinant Protein
Full Product Name	Glutathione S Transferase, Schistosoma japonicum, Recombinant (GST)
Sequence	MSPILGYWKI KGLVQPTRLL LEYLEEKYEE HLYERDEGDK WRNKKFELGL EFPNLPYYID GDVKLTQSMA IIRYIADKHN MLGGCPKERA EISMLEGAVL DIRYGVSRIA YSKDFETLKV DFLSKLPEML KMFEDRLCHK TYLNGDHVTH PDFMLYDALD VVLYMDPMCL DAFPKLVCFK KRIEAIPQID KYLKSSKYIA WPLQGWQATF GGGDHPPKSD LVPR
Host	E Coli
Form/Format	Supplied as a sterile-filtered liquid in PBS
Purity/Purification	Highly Purified 90% by SDS-PAGE.
Preparation and Storage	May be stored at 4 degree C for short-term only. For long-term storage, aliquot and store at -20 degree C. Aliquots are stable for at least 12 months at -20 degree C. For maximum recovery of product, centrifuge the original vial after thawing and prior to removing the cap. Further dilutions can be made in assay buffer.
Molecular Weight	26kD
Unit Definition	A unit is defined as the amount of enzyme that conjuates 1.0umole of 1-chloro-2,4-dinitrobenzene (CDNB) with reduced glutathione per minute at pH 6.5 at 25 degree C.
Product Categories/Family for Glutathione S Transferase, Schistosoma japonicum recombinant protein	BioSeparation; BioSep-Assay Detection; Tags
Application Notes for Glutathione S Transferase, Schistosoma japonicum recombinant protein	Suitable for use in ELISA, Western Blot and Inhibition assays. GST can be used for protein-protein interactions assay and protein-DNA interactions assay.
Related Product Information for Glutathione S Transferase, Schistosoma japonicum recombinant protein	Glutathione S-Transferase, GST, Glutathione S-transferase class-mu 28kD isozyme, GST 28, EC 2.5.1.18, Sj28GST, Sj28 antigen. Antioxidant enzyme Glutathione S-Transferase (GST) is thought to do the primary cellular defense mechanism against reactive oxygen species. GST reduces lipid hydroperoxides through its Se-independent glutathione peroxidase activity. The enzyme also detoxifies lipid peroxidation end products such as 4-hydroxynonenal (4-HNE). The soluble GST is a 26kD protein which occurs as a dimer in all aerobic organisms. Each monomer has two domains, one that binds GSH and is an /-structure similar to thioredoxin and the other, all helical, that binds the hydrophobic substrate. The GST -fusion protein expression system is a widely used recombinant protein expression system that allows a peptide or a regulatory protein domain to be expressed as a fusion to the C-terminus of Schistosoma japonicum GST. Fusion proteins also possess GST-enzymatic activity and can undergo dimerization similar to in vivo. The fusion protein can be purified via GST-affinity column chromatography. In most cases, the desired peptides or domains are removed from GST by applying a specific protease that recognizes and cleaves the linker between the protein domain and GST. The technique has been widely used to generate different kinds of proteins for crystallization, molecular immunology studies, the production of vaccines and studies involving protein-protein and protein-DNA interactions. GST was isolated from an E. coli strain that carries the coding sequence for Schistosoma japonicum GST under the control of a T7 promoter.
Other Notes	Small volumes of Glutathione S Transferase, Schistosoma japonicum 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 Glutathione S Transferase, Schistosoma japonicum purchase	MBS636220 is a recombinant protein targeting Glutathione S Transferase, Schistosoma japonicum. Also known as Glutathione S Transferase, Schistosoma japonicum, Recombinant (GST). Host: E Coli.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for Glutathione S Transferase, Schistosoma japonicum. It may not necessarily be applicable to this product.

NCBI GI #	1389744
NCBI Accession #	AAB03573.1
NCBI Official Full Name	glutathione-S-transferase
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