

Recombinant Human MGST1

Cat. No. MGST1-30203TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full length Human Microsomal Glutathione S-transferase 1 with a N terminal proprietary tag; predicted MW: 42.79 kDa inclusive of tag. P10620, AAH05923.
Species	Human
Source	Wheat Germ
ProteinLength	155 amino acids
Description	The MAPEG (Membrane Associated Proteins in Eicosanoid and Glutathione metabolism) family consists of six human proteins, two of which are involved in the production of leukotrienes and prostaglandin E, important mediators of inflammation. Other family members, demonstrating glutathione S-transferase and peroxidase activities, are involved in cellular defense against toxic, carcinogenic, and pharmacologically active electrophilic compounds. This gene encodes a protein that catalyzes the conjugation of glutathione to electrophiles and the reduction of lipid hydroperoxides. This protein is localized to the endoplasmic reticulum and outer mitochondrial membrane where it is thought to protect these membranes from oxidative stress. Four transcript variants of this gene encode one protein isoform.
Molecular Weight	42.790kDa inclusive of tags
Tissue specificity	Highly expressed in liver.

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Form	Liquid
Purity	Proprietary Purification
Storage buffer	pH: 8.00Constituents:0.3% Glutathione, 0.79% Tris HCl
Storage	Shipped on dry ice. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.
Sequences of amino acids	MVDLTQVMDDEVFMAFASYATIILSKMMLMSTATAFYRLT RKFVFPEDCVAFGKG ENAKKYLRTDDRVERVRRRAHLNDL ENIIPFLGIGLLYSLSGPD PSTAILHFRLFVGARI YHTIA YLTPLPQPNRALSFFVGYGVTL SMAYRLLKSKLYL
Sequence Similarities	Belongs to the MAPEG family.

GENE INFORMATION

Gene Name	MGST1 microsomal glutathione S-transferase 1 [Homo sapiens]
Official Symbol	MGST1
Synonyms	MGST1; microsomal glutathione S-transferase 1; GST12; MGST I;
Gene ID	4257
mRNA Refseq	NM_020300
Protein Refseq	NP_064696
MIM	138330

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Uniprot ID	P10620
Chromosome Location	12p12.3-p12.1
Pathway	Biological oxidations, organism-specific biosystem; Drug metabolism - cytochrome P450, organism-specific biosystem; Drug metabolism - cytochrome P450, conserved biosystem; Glutathione conjugation, organism-specific biosystem; Glutathione metabolism, organism-specific biosystem;
Function	glutathione binding; glutathione transferase activity; protein binding; protein homodimerization activity; transferase activity;

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