

Recombinant Human MGST1 Protein, His-tagged

Cat. No. MGST1-2439H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human MGST1 Protein (Thr34-Pro128) with a N-His tag was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	Thr34-Pro128
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. Several transcript variants, some non-protein coding and some protein coding, have been found for this gene.
Form	Freeze-dried powder
Molecular Mass	Predicted Molecular Mass: 14.5 kDa Accurate Molecular Mass: 15 kDa

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Endotoxin	<1.0 EU per 1g (determined by the LAL method).
Purity	> 90%
Applications	Positive Control; Immunogen; SDS-PAGE; WB.
Stability	The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37 centigrade for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8 centigrade for one month. Aliquot and store at -80 centigrade for 12 months.
Storage Buffer	20mM Tris, 150mM NaCl, pH8.0, containing 1mM EDTA, 1mM DTT, 0.01% SKL, 5% Trehalose and Proclin300.
Reconstitution	Reconstitute in 20mM Tris, 150mM NaCl (pH8.0) to a concentration of 0.1-1.0 mg/mL. Do not vortex.

GENE INFORMATION

Gene Name	MGST1 microsomal glutathione S-transferase 1 [Homo sapiens (human)]
Official Symbol	MGST1
Synonyms	MGST1; microsomal glutathione S-transferase 1; GST12; MGST I; microsomal GST-1; microsomal GST-I; glutathione S-transferase 12; MGST; MGST-I; MGC14525;
Gene ID	4257

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mRNA Refseq	NM_020300
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Protein Refseq	NP_064696
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MIM	138330
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UniProt ID	P10620
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