

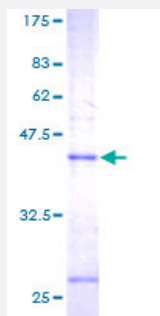
Full-Length

MGST1 (Human) Recombinant Protein (P01)

Catalog # H00004257-P01

Size 10 ug, 25 ug

Applications



Specification

Product Description	Human MGST1 full-length ORF (AAH05923, 1 a.a. - 155 a.a.) recombinant protein with GST-tag at N-terminal.
Sequence	MVDLTQVMDDEVFMAFASYATIILSKMMLMSTATAFYRLTRKVFANPEDCVAFGKGENAKKYLRT DDRVERVRRAHLNDLENIIPFLGIGLLYSLSGPD PSTAILHFRLFVGARIYHTIAYLTPLPQPNRALSFF VGYGVTLSMAYRLLKSKLYL
Host	Wheat Germ (in vitro)
Theoretical MW (kDa)	42.79
Interspecies Antigen Sequence	Mouse (83); Rat (83)
Preparation Method	in vitro wheat germ expression system
Purification	Glutathione Sepharose 4 Fast Flow
Quality Control Testing	12.5% SDS-PAGE Stained with Coomassie Blue.
Storage Buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.
Storage Instruction	Store at -80°C. Aliquot to avoid repeated freezing and thawing.

Note

Best use within three months from the date of receipt of this protein.

Applications

- Enzyme-linked Immunoabsorbent Assay
- Western Blot (Recombinant protein)
- Antibody Production
- Protein Array

Gene Info — MGST1

Entrez GeneID [4257](#)

GeneBank Accession# [BC005923](#)

Protein Accession# [AAH05923](#)

Gene Name MGST1

Gene Alias GST12, MGC14525, MGST, MGST-I

Gene Description microsomal glutathione S-transferase 1

Omim ID [138330](#)

Gene Ontology [Hyperlink](#)

Gene Summary

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. [provided by RefSeq]

Other Designations glutathione S-transferase 12

Pathway

- [Drug metabolism - cytochrome P450](#)
- [Glutathione metabolism](#)
- [Metabolism of xenobiotics by cytochrome P450](#)

Disease

- [Chronic Disease](#)
- [Colorectal Neoplasms](#)
- [Genetic Predisposition to Disease](#)
- [Kidney Failure](#)
- [Macular Degeneration](#)
- [Pancreatitis](#)