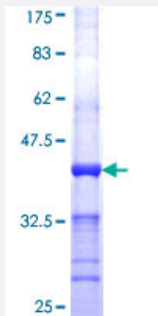


GSTM2 (Human) Recombinant Protein (Q01)

Catalog # H00002946-Q01

Size 25 ug, 10 ug

Applications



Specification

Product Description	Human GSTM2 partial ORF (NP_000839, 90 a.a. - 189 a.a.) recombinant protein with GST-tag at N-terminal.
Sequence	SEKEQIREIDILENQFMDSRMLAKLCYDPDFEKLKPEYLQALPEMLKLYSQFLGKQPWFLGDKITFVDFIAYDVLERNQVFEPSCLDAPNLKDFISRFE
Host	Wheat Germ (in vitro)
Theoretical MW (kDa)	36.74
Interspecies Antigen Sequence	Mouse (78); Rat (79)
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 — GSTM2

Entrez GeneID [2946](#)

GeneBank Accession# [NM_000848](#)

Protein Accession# [NP_000839](#)

Gene Name GSTM2

Gene Alias GST4, GSTM, GSTM2-2, GTHMUS, MGC117303

Gene Description glutathione S-transferase mu 2 (muscle)

Omim ID [138380](#)

Gene Ontology [Hyperlink](#)

Gene Summary

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. [provided by RefSeq]

Other Designations

GST class-mu 2|GST, muscle|OTTHUMP00000013351|S-(hydroxyalkyl)glutathione lyase M2|glutathione S-alkyltransferase M2|glutathione S-aryltransferase M2|glutathione S-transferase M2|glutathione S-transferase 4|glutathione S-transferase M1|glutathione

Pathway

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

Disease

- [Breast Neoplasms](#)
- [Cardiovascular Diseases](#)
- [Colorectal Neoplasms](#)
- [Coronary Artery Disease](#)
- [Diabetes Mellitus](#)
- [Edema](#)
- [Genetic Predisposition to Disease](#)
- [Helicobacter Infections](#)
- [Hypertension](#)
- [Kidney Failure](#)
- [Lung Neoplasms](#)
- [Neoplasms](#)
- [Prenatal Exposure Delayed Effects](#)
- [Stomach Neoplasms](#)