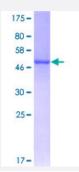


Full-Length

GSTM5 (Human) Recombinant Protein (P01)

Catalog # H00002949-P01 Size 25 ug, 10 ug

Applications



Specification	
Product Description	Human GSTM5 full-length ORF (NP_000842.2, 1 a.a 218 a.a.) recombinant protein with GST-tag at N-terminal.
Sequence	MPMTLGYWDIRGLAHAIRLLLEYTDSSYVEKKYTLGDAPDYDRSQWLNEKFKLGLDFPNLPYLIDG AHKITQSNAILRYIARKHNLCGETEEEKIRVDILENQVMDNHMELVRLCYDPDFEKLKPKYLEELPE KLKLYSEFLGKRPWFAGDKITFVDFLAYDVLDMKRIFEPKCLDAFLNLKDFISRFEGLKKISAYMKS SQFLRGLLFGKSATWNSK
Host	Wheat Germ (in vitro)
Theoretical MW (kDa)	52.1
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-HCI, 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 — GSTM5	
Entrez GenelD	2949
GeneBank Accession#	NM_000851.2
Protein Accession#	NP_000842.2
Gene Name	GSTM5
Gene Alias	GSTM5-5, GTM5
Gene Description	glutathione S-transferase mu 5
Omim ID	<u>138385</u>
Gene Ontology	<u>Hyperlink</u>
Gene Summary	Cytosolic and membrane-bound forms of glutathione S-transferase are encoded by two distinct s upergene families. At present, eight distinct classes of the soluble cytoplasmic mammalian glutath ione S-transferases have been identified: alpha, kappa, mu, omega, pi, sigma, theta and zeta. Thi s gene encodes a glutathione S-transferase that belongs to the mu class. The mu class of enzyme s functions in the detoxification of electrophilic compounds, including carcinogens, therapeutic dru gs, environmental toxins and products of oxidative stress, by conjugation with glutathione. The gen es 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. Diversification of these genes has occurred in regions encoding substrate-binding domains, as well as in tissue expression patterns, to accommodate an increasing number of foreign compounds. [provided by RefSeq
Other Designations	GST class-mu 5 OTTHUMP00000013359 S-(hydroxyalkyl)glutathione lyase M5 glutathione S-alkyl transferase M5 glutathione S-aralkyltransferase M5 glutathione S-aryltransferase M5 glutathione S-transferase M5



Pathway

- Drug metabolism cytochrome P450
- Glutathione metabolism
- Metabolism of xenobiotics by cytochrome P450

Disease

- Alzheimer disease
- Breast Neoplasms
- Cognition
- Coronary Artery Disease
- Coronary Disease
- Genetic Predisposition to Disease
- Head and Neck Neoplasms
- Hypertension
- Lung Neoplasms
- Neoplasm Recurrence
- Neoplasms
- Prenatal Exposure Delayed Effects