

Recombinant Human GSTM4 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. GSTM4-1106H Lot. No. (See product label)

SPECIFICATION

Product Overview	GSTM4 MS Standard C13 and N15-labeled recombinant protein (NP_000841) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
Description	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. 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. Multiple transcript variants, each encoding a distinct protein isoform, have been identified.

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Molecular Mass	25.6 kDa
AA Sequence	MSMTLGWDIRGLAHAI RLLLEYTDSSYEEKKYTMGDAPDYDRSQWLNEKFKLGLD FPNLPYLIDGAHKITQSNAILCYIARKHNLCGETEEEEKIRVDILENQAMDVSNQLARVC YSPDFEKLKPEYLEELPTMMQHFSQFLGKRPWFVGDKITFVDFLAYDVLDLHRIFEP NCLDAFPNLKDFISRFEGLEKISAYMKSSRFLPKPLYTRVAVWGNKTRTRPLEQKLIS EEDLAANDILDYKDDDDKV
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Stability	Stable for 3 months from receipt of products under proper storage and handling conditions.
Storage	Store at -80 centigrade. Avoid repeated freeze-thaw cycles.
Concentration	50 µg/mL as determined by BCA
Storage Buffer	100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

Gene Name	GSTM4 glutathione S-transferase mu 4 [Homo sapiens (human)]
Official Symbol	GSTM4
Synonyms	GSTM4; glutathione S-transferase mu 4; glutathione S transferase M4; glutathione S-transferase Mu 4; GST-Mu2; GTS-Mu2; GST class-mu 4; glutathione S-transferase M4; glutathione S-aryltransferase M4; glutathione S-alkyltransferase M4; glutathione S-aralkyltransferase M4; S-(hydroxyalkyl)glutathione lyase M4; GTM4; GSTM4-4; MGC9247; MGC131945;

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Gene ID	2948
mRNA Refseq	NM_000850
Protein Refseq	NP_000841
MIM	138333
UniProt ID	Q03013
SDS-PAGE	