

Recombinant Human GSTM2 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. GSTM2-1939H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	GSTM2 MS Standard C13 and N15-labeled recombinant protein (NP_000839) 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.
Molecular Mass	25.7 kDa
AA Sequence	MPMTLGYNIRGLAHSIRLLLEYTDSSYEKKYTMGDAPDYDRSQWLNEKFKLGLD FPNLPYLIDGTHKITQSNAILRYIARKHNLCGESEKEQIREIDILENQFMDSRMQLAKLC

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YDPDFEKLKPEYLQALPEMLKLYSQFLGKQPWSLGDKITFVDFIAYDVLERNQVFEP
SCLDAFPNLKDFISRFEGLEKISAYMKSSRFLPRPVFTKMAVWGNKTRTRPLEQKLIS
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 [GSTM2 glutathione S-transferase mu 2 \[Homo sapiens \(human\) \]](#)

Official Symbol [GSTM2](#)

Synonyms GSTM2; glutathione S-transferase mu 2 (muscle); glutathione S transferase M2 (muscle); glutathione S-transferase Mu 2; GST4; GST, muscle; GST class-mu 2; glutathione S-transferase 4; glutathione S-transferase M1; glutathione S-aryltransferase M2; glutathione S-alkyltransferase M2; glutathione S-aralkyltransferase M2; S-(hydroxyalkyl)glutathione lyase M2; glutathione S-transferase M2 (muscle); GSTM; GTHMUS; GSTM2-2; MGC117303;

Gene ID [2946](#)

mRNA Refseq [NM_000848](#)

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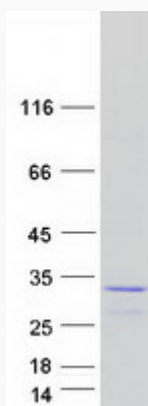
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Protein Refseq NP_000839

MIM 138380

UniProt ID P28161

SDS-PAGE



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