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	MPMTLGYWNIRGLAHSIRLLLEYTDSSYEEKKYTMGDAPDYDRSQWLNEKFKLGLD FPNLPYLIDGTHKITQSNAILRYIARKHNLCGESEKEQIREDILENQFMDSRMQLAKLC

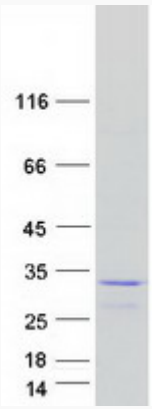
Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

	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

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

Protein Refseq	NP_000839
MIM	138380
UniProt ID	P28161
SDS-PAGE	

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA