

Recombinant Human Glutathione S-transferase Mu 2 (Muscle), His-tagged

Cat. No. GSTM2-794H **Lot. No.** (See product label)

SPECIFICATION

Product Overview Recombinant human GSTM2 protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques. MW = 27.9 kDa (238aa), confirmed by MALDI-TOF.

Species Human

Source E.coli

Description GSTM2, also known as Glutathione S-transferase Mu 2, is member of the glutathione s-transferase (GST) family of proteins. There are eight families of GST proteins, namely alpha, kappa, mu, omega, pi, sigma, theta and zeta, each of which is composed of proteins that have a variety of functions throughout the cell. 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.

Sequences Of Amino Acids

MGSSHHHHHH SSGLVPRGSH MPMTLGWNI RGLAHSIRLL LEYTDSSYEE
 KKYTMGDAPD YDRSQWLNEK FKLGLDFPNL PYLIDGTHKI TQSNAILRYI
 ARKHNLCGES EKEQIREDIL ENQFMDSRMQ LAKLCYDPDF EKLKPEYLQA
 LPEMLKLYSQ FLGKQPWFLG DKITFVDFA YDVLERNQVF EPSCLDAFPN
 LKDFISRFEG LEKISAYMKS SRFLRPVFT KMAVWGNK

Purity > 95% by 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

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| Form | Liquid. 20mM Tris-HCl buffer (pH8.0) containing 10% glycerol 0.1M NaCl, 1mM DTT. |
| Concentration | 0.5 mg/ml (determined by Bradford assay). |
| Storage | Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles. |

GENE INFORMATION

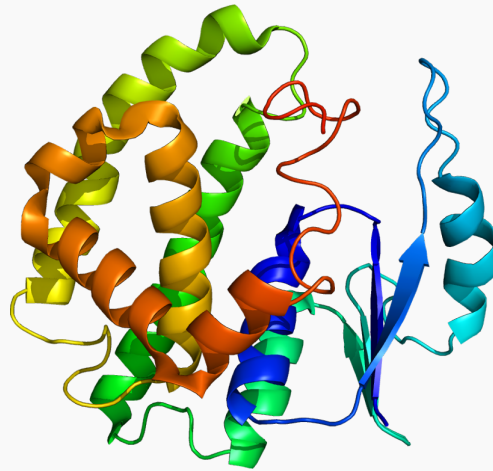
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|----------------------------|--|
| Gene Name | GSTM2 glutathione S-transferase mu 2 (muscle) [Homo sapiens] |
| Synonyms | GSTM2; glutathione S-transferase mu 2 (muscle); GST4; GSTM; GTHMUS; GSTM2-2; MGC117303; glutathione S-transferase Mu 2; GST, muscle; GST class-mu 2; OTTHUMP00000013350; OTTHUMP00000013353; 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; EC 2.5.1.18; glutathione S-transferase M2 (muscle) |
| Gene ID | 2946 |
| mRNA Refseq | NM_000848 |
| Protein Refseq | NP_000839 |
| MIM | 138380 |
| UniProt ID | P28161 |
| Chromosome Location | 1p13.3 |

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| Pathway | Drug metabolism - cytochrome P450; Glutathione metabolism; Metabolism of xenobiotics by cytochrome P450 |
| Function | glutathione transferase activity; transferase activity |



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