

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 MPMTLG YWNI RGLAHSIRLL LEYTDSSYEE KKYTMGDAPD YDRSQWLNEK FKLGLDFPNL PYLIDGTHKI TQSNAILRYI ARKHNLCGES EKEQIREDEL ENQFMDSRMQ LAKLCYDPDF EKLKPEYLQA LPEMLKLYSQ FLGKQPWFLG DKITFVDFA YDVLERNQVF EPSCLDAFPN LKDFISRFEG LEKISAYMKS SRFLPRPVFT KMAVWGNK
Purity	> 95% by SDS – PAGE.

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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

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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