

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

Cat. No. GSTM2-1691H **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
Species	Human
Source	Human
Description	GSTM2, also known as Glutathione S-transferase Mu 2, is a 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.
Concentration	0.5 mg/ml
Form	Supplied as a liquid in 20mM Tris-HCl buffer, pH 8.0, containing 10% glycerol, 0.1M NaCl and 1mM DTT.
Purity	> 95% by SDS - PAGE
Sequence	1-218 amino acids: MGSSHHHHHH SSGLVPRGSH MPMTLGYWNI RGLAHSIRLL LEYTDSSYEE KKYTMGDAPD YDRSQWLNEK FKLGLDFPNL PYLIDGTHKI

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TQSNAILRYI ARKHNLGCGES EKEQIREDEL ENQFMDSRMQ LAKLCYDPDF
EKLKPEYLQA LPEMLKLYSQ FLGKQPWFLG DKITFVDFA YDVLERNQVF
EPSCLDAFPN LKDFISRFEG LEKIS

Molecular Mass 27.9 kDa (238aa), confirmed by MALDI-TOF

Applications SDS-PAGE

Bioactivity Specific activity is < 25 units/mg, and is defined as the amount of enzyme that conjugate 1.0 uM of 1-chloro-2,4-dinitrobenzene (CDNB) with reduced glutathione per minute at pH 6.5 at 25 DEG C.

Storage Store at 4 deg C for short term storage (1/2 weeks). Aliquot and store at -20 deg C or - 70 deg C for long term storage. Avoid repeated freeze/thaw cycles.

GENE INFORMATION

Gene Name [GSTM2 glutathione S-transferase mu 2 \(muscle\) \[Homo sapiens \]](#)

Official Symbol GSTM2

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](#)

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Protein Refseq	NP_000839
MIM	138380
UniProt ID	P28161
Chromosome Location	1p13.3
Pathway	Drug metabolism - cytochrome P450; Glutathione metabolism; Metabolism of xenobiotics by cytochrome P450
Function	glutathione transferase activity; transferase activity
PDB rendering based on 1hna.	