

Recombinant Human Glutathione S-transferase Mu 1

Cat. No. GSTM1-2473H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human GST M1 was expressed in <i>E. coli</i> . MW= 26 kDa.
Species	Human
Source	E.coli
Description	Glutathione S-transferase Mu 1 (gene name GSTM1) is a human glutathione S-transferase. 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 cytoplasmic glutathione S-transferase that belongs to the mu class.
Specific Activity	68.9 Units/mg using spectrophotometric determination of 1-chloro-2,4-dinitrobenzene (CDNB) conjugation with reduced glutathione (1 mM) in 100 mM NaPO ₄ (pH 6.5) at room temperature.
Concentration	2.4 mg/mL total protein using the Bradford protein assay with BSA as a standard.
Storage Buffer	50 mM Tris-HCl (pH 7.5), 50 mM NaCl, 1 mM DTT, 5 mM EDTA and 50% glycerol.
Purity	≥95% as assessed by inspection on a Coomassie® Blue-stained SDS-PAGE gel.
Storage	-20°C; avoid multiple freeze-thaw cycles.

 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

GENE INFORMATION

Gene Name	GSTM1 glutathione S-transferase mu 1 [Homo sapiens]
Synonyms	glutathione S-transferase mu 1; MU; H-B; GST1; GTH4; GTM1; MU-1; GSTM1-1; MGC26563; GSTM1a-1a; GSTM1b-1b; GSTM1; glutathione S-transferase Mu 1; HB subunit 4; GST class-mu 1; GST HB subunit 4; glutathione S-transferase M1; glutathione S-aryltransferase; glutathione S-alkyltransferase; glutathione S-aralkyltransferase; S-(hydroxyalkyl)glutathione lyase; EC 2.5.1.18
Gene ID	2944
mRNA Refseq	NM_000561
Protein Refseq	NP_000552
MIM	138350
UniProt ID	P09488
Chromosome Location	1p13.3
Pathway	Drug metabolism - cytochrome P450; Glutathione metabolism; Metabolism of xenobiotics by cytochrome P450; Biological oxidations
Function	glutathione transferase activity; transferase activity

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