

# Recombinant Human glutathione S-transferase mu 1, His-tagged

**Cat. No.** GSTM1-514H    **Lot. No.** (See product label)

## SPECIFICATION

<b>Product Overview</b>	GSTM1, 1-181aa Human, His tag, E.coli
<b>Species</b>	Human
<b>Source</b>	E.coli
<b>ProteinLength</b>	1-181 a.a.
<b>Description</b>	<p>Glutathione S-transferase mu 1 isoform 2, also known as GSTM1, is a glutathione S-transferase that belongs to the mu class. GSTs (glutathione S-transferase) are differentially expressed in lung, liver and kidney tissue and, notably, three isoforms (GSTA1-1, GSTA1-4 and GSTM1) localize to the mitochondria in addition to the cytoplasm. The GSTM1 of enzymes functions in the detoxification of electrophilic compounds, including carcinogens, therapeutic drugs, environmental toxins and products of oxidative stress, by conjugation with glutathione. Recombinant human GSTM1 protein, fused to His-tag at N-terminus, was expressed in E.coli.</p>
<b>Form</b>	Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 0.4M Urea, 10% glycerol
<b>Molecular Mass</b>	23.6 kDa (203aa)
<b>AA Sequence</b>	<p>MGSSHHHHHH SSGLVPRGSH RSMPMILGYW DIRGLAHAIR LLELYTDSSY            EEKKYTMGDA PDYDRSQWLN EKFKLGLDFP NLPYLIDGAH KITQSNAILC            YIARKHNLCG ETEEEKIRVD ILENQTMDSNH MQLGMICYNP EFEKLPKYL</p>

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EELPEKLLKY SEFLGKRPWF AGNKGLEKIS AYMKSSRFLP RPFVFSKMAVW GNK

**Purity** >85% by SDS - PAGE

**Storage** Can be stored at +4C short term (1-2 weeks). For long term storage, aliquot and store at -20C or -70C. Avoid repeated freezing and thawing cycles.

**Concentration** 0.25 mg/ml (determined by Bradford assay)

## GENE INFORMATION

**Gene Name** [GSTM1 glutathione S-transferase mu 1 \[ Homo sapiens \]](#)

**Official Symbol** GSTM1

**Synonyms** GSTM1; glutathione S-transferase mu 1; glutathione S transferase M1 , GST1; glutathione S-transferase Mu 1; H B; MU; 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; H-B; GST1; GTH4; GTM1; MU-1; GSTM1-1; GSTM1a-1a; GSTM1b-1b; MGC26563;

**Gene ID** [2944](#)

**mRNA Refseq** [NM\\_000561](#)

**Protein Refseq** [NP\\_000552](#)

**MIM** [138350](#)

**UniProt ID** [P09488](#)

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<b>Chromosome Location</b>	1p13.3
<b>Pathway</b>	Biological oxidations, organism-specific biosystem; C-MYB transcription factor network, organism-specific biosystem; Drug metabolism - cytochrome P450, organism-specific biosystem; Drug metabolism - cytochrome P450, conserved biosystem; Glutathione conjugation, organism-specific biosystem; Glutathione metabolism, organism-specific biosystem; Glutathione metabolism, organism-specific biosystem;
<b>Function</b>	glutathione transferase activity; transferase activity;

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