

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

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

SPECIFICATION

Product Overview	GSTM1, 1-181aa Human, His tag, E.coli
Species	Human
Source	E.coli
ProteinLength	1-181 a.a.
Description	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.
Form	Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 0.4M Urea, 10% glycerol
Molecular Mass	23.6 kDa (203aa)
AA Sequence	MGSSHHHHHH SSGLVPRGSH RSMPLILGYW DIRGLAHAIR LLEYTDSSY EEKKYTMGDA PDYDRSQWLN EKFKLGLDFP NLPYLIDGAH KITQSNAILC YIARKHNLGC ETEEEKIRVD ILENQTMDSNH MQLGMICYNP EFEKLKPKYL

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EELPEKLLKY SEFLGKRPWF AGNKGLEKIS AYMKSSRFLP RPVFSKMAVW 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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Chromosome Location	1p13.3
Pathway	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;
Function	glutathione transferase activity; transferase activity;

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