

Recombinant Human GSTM1, His-tagged

Cat. No. GSTM1-5115H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant human GSTM1 protein, fused to His-tag at N-terminus, was expressed in E.coli.
Species	Human
Source	E.coli
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.
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 RSMPMILGYW DIRGLAHAIR LLELYTDSSY EEKKYTMGDA PDYDRSQWLN EKFKLGLDFP NLPYLIDGAH KITQSNAILC YIARKHNLCG ETEEEKIRVD ILENQTMDSNH MQLGMICYNP EFEKLPKPKYL EELPEKPKLY SEFLGKRPWF AGNKGLEKIS AYMKSSRFLP RPFVFSKMAVW GNK
Purity	>85% by SDS - PAGE

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Applications	SDS-PAGE
Storage	Can be stored at +4centigrade short term (1-2 weeks). For long term storage, aliquot and store at -20centigrade or -70centigrade. 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
Chromosome	1p13.3

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Location**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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