

## Active Recombinant Human GSTM5 protein, His-tagged

Cat. No. GSTM5-25H Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant human GSTM5 protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.
<b>Species</b>	Human
<b>Source</b>	E.coli
<b>Description</b>	Glutathione S-transferase mu 5, also known as GSTM5, is 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. GSTM5 plays an important role in detoxification.
<b>Form</b>	Liquid. In 20 mM Tris-HCl buffer (pH8.0) containing 1mM DTT, 10% glycerol, 0.1M NaCl
<b>Bio-activity</b>	Specific activity is >90,000 pmol/min/ug, and is defined as the amount of enzyme that conjugate 1.0 u mole of 1-chloro-2,4-dinitrobenzene (CDNB) with reduced glutathione per minute at pH 6.5 at 25C.
<b>Molecular Mass</b>	28.2kDa (242aa), confirmed by MALDI-TOF
<b>AA Sequence</b>	MGSSHHHHHH SSGLVPRGSH MGSHPMTLG YWDIRGLAHA IRLLEYTDS SYVEKKYTLG DAPDYDRSQW LNEKFKLGLD FPNLPYLIDGAHKITQSNAI LRYIARKHNL CGETEEEEKIR VDILENQVMD NHMELVRLCY DPDFEKLKPK

 Tel: 1-631-559-9269 1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

YLEELPEKLLK LYSEFLGKRP WFAGDKITFV DFLAYDVLDLDM KRIFEPKCLD  
AFLNLKDFIS RFEGLLKISA YMKSSQFLRG LLFGKSATWN SK

**Purity** >95% by SDS - PAGE

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

**Concentration** 1 mg/ml (determined by Bradford assay)

## GENE INFORMATION

**Gene Name** [GSTM5 glutathione S-transferase mu 5 \[ Homo sapiens \]](#)

**Official Symbol** [GSTM5](#)

**Synonyms** GSTM5; glutathione S-transferase mu 5; glutathione S transferase M5; glutathione S-transferase Mu 5; GST class-mu 5; glutathione S-transferase M5; glutathione S-aryltransferase M5; glutathione S-alkyltransferase M5; glutathione S-aralkyltransferase M5; S-(hydroxyalkyl)glutathione lyase M5; GTM5; GSTM5-5;

**Gene ID** [2949](#)

**mRNA Refseq** [NM\\_000851](#)

**Protein Refseq** [NP\\_000842](#)

**MIM** [138385](#)

**UniProt ID** [P46439](#)

 Tel: 1-631-559-9269 1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA



**Chromosome  
Location**

1p13.3

**Pathway**

Biological oxidations, 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, conserved biosystem; Metabolism, organism-specific biosystem;

**Function**

glutathione transferase activity; transferase activity;

 Tel: 1-631-559-9269 1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA