

# Recombinant Human Glutathione S-Transferase Mu 5, His-tagged

**Cat. No.** GSTM5-2481H    **Lot. No.** (See product label)

## SPECIFICATION

### Product Overview

Recombinant human GSTM5 protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography techniques.

### Species

Human

### Source

E.coli

### ProteinLength

1-218aa

### Description

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.

### Form

Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 0.1M NaCl, 10% glycerol, 1mM DTT.

### Molecular Mass

28.2kDa (242aa) confirmed by MALDI-TOF

### AA Sequence

MGSSHHHHHH SSGLVPRGSH MGSHPMTLG YWDIRGLAHA IRLLEYTDS  
 SYVEKKYTLG DAPDYDRSQW LNEKFKLGLD FPNLPYLIDG AHKITQSNAI  
 LRYIARKHNL CGETEEEEKIR VDILENQVMD NHMELVRLCY DPDFEKLKPK  
 YLEELPEKLG LYSEFLGKRP WFAGDKITFV DFLAYDVLDM KRIFEPKCLD  
 AFLNLKDFIS RFEGLKKISA YMKSSQFLRG LLFGKSATWN SK

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<b>Purity</b>	>95% by SDS - PAGE
<b>Applications</b>	SDS-PAGE
<b>Storage</b>	Can be stored at 4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.
<b>Concentration</b>	1 mg/ml (determined by Bradford assay)

## GENE INFORMATION

<b>Gene Name</b>	<a href="#">GSTM5 glutathione S-transferase mu 5 [ Homo sapiens ]</a>
<b>Official Symbol</b>	GSTM5
<b>Synonyms</b>	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;
<b>Gene ID</b>	<a href="#">2949</a>
<b>mRNA Refseq</b>	<a href="#">NM_000851</a>
<b>Protein Refseq</b>	<a href="#">NP_000842</a>
<b>MIM</b>	<a href="#">138385</a>
<b>UniProt ID</b>	<a href="#">P46439</a>
<b>Chromosome Location</b>	1p13.3

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**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;

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