

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 DFLAYDVLDL KRIFEPKCLD AFLNLKDFIS RFEGLLKISA YMKSSQFLRG LLFGKSATWN SK

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Purity	>95% by SDS - PAGE
Applications	SDS-PAGE
Storage	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.
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
Chromosome Location	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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