

Active Recombinant Mouse Glutathione S-Transferase, Mu 1, His-tagged

Cat. No. Gstm1-2507M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Gstm1 protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography techniques. MW: 28.1 kDa.
Species	Mouse
Source	E.coli
ProteinLength	1-218aa
Description	Gstm1 is a glutathione S-transferase that belongs to the mu class. This enzyme acts by catalyzing the reaction of glutathione with an acceptor molecule to form an S-substituted glutathione (S=sulfur). The reactions utilizing glutathione contribute the transformation of a wide variety of electrophiles, including reactive products of lipid, protein, carcinogens, therapeutic drugs, environmental toxins, and products of oxidative stress.
Form	Liquid. In 20 mM Tris-HCl buffer (pH8.0) containing 1mM DTT, 10% glycerol.
Bio-activity	Specific activity is < 11 units/mg, and is defined as the amount of enzyme that conjugate 1.0 umole of 1-chloro-2,4-dinitrobenzene (cdnb) with reduced glutathione per minute at ph 6.5 at
Molecular Mass	28.1 kDa (238aa), confirmed by MALDI-TOF

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AA Sequence	MGSSHHHHHH SSGLVPRGSH MPMILGYWNV RGLTHPIRML LEYTDSSYDE KRYTMGDAPD FDRSQWLNEK FKLGLDFPNL PYLIDGSHKI TQSNAILRYL ARKHHLDGET EEERIRADIV ENQVMDTRMQ LIMLCYNPDF EKQKPEFLKT IPEKMKLYSE FLGKRPWFAG DKVTYVDFLA YDILDQYRMF EPKCLDAFPN LRDFLARFEG LKKISAYMKS SRYIATPIFS KMAHWSNK
Purity	> 95% by SDS-PAGE
Applications	SDS-PAGE
Storage	Can be stored at 4° short term (1-2 weeks). For long term storage, aliquot and store at -20° or -70°. Avoid repeated freezing and thawing cycles.
Concentration	1 mg/ml (determined by Bradford assay)
GENE INFORMATION	
Gene Name	Gstm1 glutathione S-transferase, mu 1 [Mus musculus]
Official Symbol	Gstm1
Synonyms	GSTM1; glutathione S-transferase, mu 1; glutathione S-transferase Mu 1; pmGT10; GST 1-1; GST class-mu 1; glutathione S-transferase GT8.7; glutathione-S-transferase, mu 1; Gstb1; Gstb-1;
Gene ID	14862
mRNA Refseq	NM_010358
Protein Refseq	NP_034488

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Pathway

Aflatoxin B1 metabolism, organism-specific biosystem; Biological oxidations, organism-specific biosystem; Drug metabolism - cytochrome P450, organism-specific biosystem; Drug metabolism - cytochrome P450, conserved biosystem; Estrogen metabolism, organism-specific biosystem; Glutathione conjugation, organism-specific biosystem; Glutathione metabolism, organism-specific biosystem;

Function

glutathione transferase activity; protein binding; protein homodimerization activity; steroid binding; transferase activity;

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