

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

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

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

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

AA Sequence	MGSSHHHHHH SSSLVPRGSH MPMILGYWNV RGLTHPIRML LEYTDSSYDE KRYTMGDAPD FDRSQWLNEK FKLGLDFPNL PYLIDGSHKI TQSNAILRYL ARKHHLDTGET EEERIRADIV ENQVMDTRMQ LIMLCYNPDF EKQKPEFLKT IPEKMKLYSE FLGKRPFWAG 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

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

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

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



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;

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

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

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