

GSTM1 active protein

GSTM1, 1-218aa, Mouse, E Coli (Bioactivity Validated)

CATALOG # AAA48521	HOST E Coli	APPLICATIONS SDS-Page
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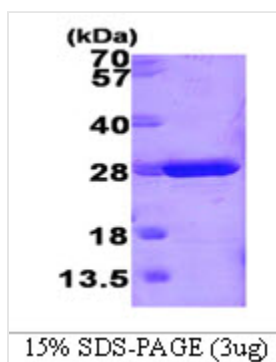
PRODUCT SYNONYMS

GSTM1; 1-218aa; Mouse; E Coli (Bioactivity Validated); Glutathione S-transferase Mu 1; GST class-mu1; GST 1-1; pmGT10; Glutathione S-transferase Mu 1 Glutathione S transferase mu; GST class Mu; GST class mu 1; GST mu; GST1; GSTM1.; GSTM1 active protein

PRODUCT SPECIFICATIONS

Host	E Coli
Purity/Purification	> 95% by SDS-PAGE
Form/Format	Liquid. In PBS (pH 7.4) containing 5mM glutathione
Concentration	1 mg/ml (determined by Bradford assay) (varies by lot)
Sequence	MPMILGYWNV RGLTHPIRML LEYTDSSYDE KRYTMGDAPD FDRSQWLNEK FKLGLDFPNL PYLIDGSHKI TQSNAILRYL ARKHLDGET EEERIRADIV ENQVMDTRMQ LIMLCYNPDF EKQKPEFLKT IPEKMKLYSE FLGKRPWFAG DKVTYVDFLA YDILDQYRMF EPKCLDAFPN LRDFLARFEG LKKISAYMKS SRYIATPIFS KMAHWSNK
Sequence Length	218
Applicable Applications for GSTM1 active protein	SDS-PAGE
Antigen Species	Mouse
Endotoxin Level	< 1.0 EU per 1 microgram of protein (determined by LAL method)
Biological Activity	Specific activity is > 40,000 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.
Preparation and Storage	Can be stored at 4 degree C short term (1-2 weeks). For long term storage, aliquot and store at -20 degree C or -70 degree C. Avoid repeated freezing and thawing cycles.

IMAGES



SDS-PAGE

ADDITIONAL INFORMATION

Related Product Information for GSTM1 active protein	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. Recombinant GSTM1 protein was expressed in E Coli and purified by using conventional chromatography techniques.
Product Categories/Family for GSTM1 active protein	Enzymes & Proteases
References	Lee KA., et al. (2001) Blood. 98 (12), 3483-5.; Hayes JD., et al. (1995) Crit Rev Biochem Mol Biol. 30 (6):445-600.;

NCBI AND UNIPROT INFORMATION

NCBI GI #	6754084
NCBI GeneID	14862
NCBI Accession #	NP_034488
NCBI GenBank Nucleotide #	NM_010358.5
UniProt Accession #	P10649; Q58ET5; A2AE90
Molecular Weight	25.9 kDa (218 aa), confirmed by MALDI-TOF. (Molecular weight on SDS-PAGE will appear higher)
NCBI Official Full Name	glutathione S-transferase Mu 1
NCBI Official Synonym Full Names	glutathione S-transferase, mu 1
NCBI Official Symbol	Gstm1
NCBI Official Synonym Symbols	Gstb1; Gstb-1
NCBI Protein Information	glutathione S-transferase Mu 1
UniProt Protein Name	Glutathione S-transferase Mu 1
UniProt Gene Name	Gstm1

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.