

Mouse Recombinant GSTMu 1

CATALOG #:	6348-100	100 µg
ALTERNATE NAMES:	GSTM1, GST class-mu1, GST 1-1, pmGT10	
SOURCE:	E.Coli	
PURITY:	> 95% by SDS - PAGE	
MOL. WEIGHT:	28.1 kDa (238 aa, 1-218 aa + NT His Tag)	
FORMULATION:	1 mg/ml solution in 20 mM Tris-HCl buffer (pH 8.0) containing 1 mM DTT, and 10% glycerol.	

STORAGE CONDITIONS:

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.

DESCRIPTION:

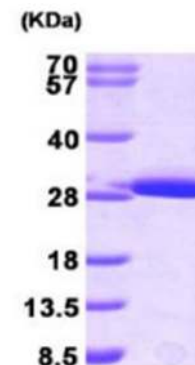
GSTM1 is a glutathione S-transferase that belongs to the mu class. This enzyme acts by catalyzing the reaction of glutathione with an acceptor molecule to form an S-substituted glutathione (S=sulfur). The reactions utilizing glutathione contribute the transformation of a wide variety of electrophiles, including reactive products of lipid, protein, carcinogens, therapeutic drugs, environmental toxins, and products of oxidative stress.

AMINO ACID SEQUENCE:

MGSSHHHHH SSGLVPRGSH MPMILGYWNV RGLTHPIRML LEYTDSSYDE
 KRYTMGDAPD FDRSQWLNEK FKLGLDFPNL PYLIDGSHKI TQSNAILRYL ARKHHLGDGT
 EEERIRADIV ENQVMDTRMQ LIMLCYNPDF EKQKPEFLKT IPEKMKLYSE FLGKRPWFAG
 DKVTYVDFLA YDILDQYRMF EPKCLDAFPN LRDFLARFEG LKKISAYMKS SRYIATPIFS
 KMAHWSNK

BIOLOGICAL ACTIVITY:

Specific activity is < 11 units/mg, and is defined as the amount of enzyme that conjugates 1.0 µ mole of 1-chloro-2, 4-dinitrobenzene (CDNB) with reduced glutathione per minute at pH 6.5 at 25°C.



15% SDS-PAGE (3µg)

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RELATED PRODUCTS:

- GST Colorimetric Activity Assay Kit (Cat. No. K263-100)
- GST Fluorometric Activity Assay Kit (Cat. No. K260-100)
- GST Inhibitor-1 (Cibacron Blue 3G-A, Sodium Salt) (Cat. No. 1555R-1000)
- GST Inhibitor-2 (Ethacrynic acid) (Cat. No. 1556-1000)
- Human recombinant GSTA1 (Cat. No. 6346-100)
- Human recombinant GSTP1 (Cat. No. 6347-100)
- Mouse recombinant GSTM1 (Cat. No. 6349-100)
- Human recombinant GSTM2 (Cat. No. 6350-100)
- Schistosoma japonicum recombinant GST (Cat. No. 6351-100)
- Human recombinant GSR (Cat. No. 6352-100)

FOR RESEARCH USE ONLY! Not to be used in humans.