

Mouse Recombinant GSTM 1

CATALOG #:	6349-100	100 µg
ALTERNATE NAMES:	Glutathione S-transferase Mu 1, GST class-mu1, GST 1-1, pmGT10.	
SOURCE:	E.Coli	
PURITY:	> 95% by SDS - PAGE	
MOL. WEIGHT:	25.9 kDa (218 aa, 1-218 aa)	
ENDOTOXIN LEVEL:	< 1.0 EU per 1 µg of protein (determined by LAL method).	
FORMULATION:	1 mg/ml solution in PBS (pH 7.4) containing 5 mM Glutathione	

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:

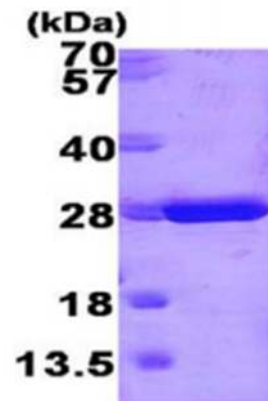
GSTM1 is a glutathione S-transferase that belongs to the mu class. This enzyme acts by catalyzing the reaction of glutathione with an acceptor molecule to form an S-substituted glutathione (S=sulfur). The reactions utilizing glutathione contribute the transformation of a wide variety of electrophiles,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

AMINO ACID SEQUENCE:

MPMILGYWNV RGLTHPIRML LEYTDSSYDE KRYTMGDAPD FDRSQWLNEK
FKLGLDFPNL PYLIDGSHKI TQSNAILRYL ARKHHLDGET EEERIRADIV ENQVMDTRMQ
LIMLCYNPDF EKQKPEFLKT IPEKMLYSE FLGKRPWFAG DKVTVVDFLA YDILDQYRMF
EPKCLDAFPN LRDFLARFEG LKKISAYMKS SRYIATPIFS KMAHWSNK

BIOLOGICAL ACTIVITY:

Specific activity is 3 units/mg, and is defined as the amount of enzyme that conjugates 1.0 µmole of 1-chloro-2, 4-dinitrobenzene (CDNB) with reduced glutathione per minute at pH 6.5 at 25°C.



15% SDS-PAGE (3ug)

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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 GSTMu1 (**Cat. No. 6348-100**)
- 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.