NKMAXBio We support you, we believe in your research Recombinant mouse Glutathione S-transferase mu 1/GSTM1 protein

Catalog Number: GST0905

# **PRODUCT INFORMATION**

Expression system E.coli

**Domain** 1-218aa

**UniProt No.** P10649

NCBI Accession No. NP\_034488

### **Alternative Names**

pmGT10, GSTM1, GST1, GST mu, GST class mu 1, GST class Mu, GST 1-1, Glutathione S-transferase Mu 1, Glutathione S transferase mu

# **PRODUCT SPECIFICATION**

#### **Molecular Weight**

25.9 kDa (218aa) confirmed by MALDI-TOF (Molecular weight on SDS-PAGE will appear higher)

**Concentration** 1mg/ml (determined by Bradford assay)

#### **Formulation**

Liquid in. Phosphate-Buffered Saline (pH 7.4) containing 5mM glutathione

**Purity** > 95% by SDS-PAGE

#### **Endotoxin level**

< 1 EU per 1ug of protein (determined by LAL method)

### **Biological Activity**

Specific activity is > 40,000pmol/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.

Tag

Non-Tagged

Application

SDS-PAGE, Enzyme Activity

#### **Storage Condition**

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.



NKMAXBio We support you, we believe in your research Recombinant mouse Glutathione S-transferase mu 1/GSTM1 protein

Catalog Number: GST0905

## BACKGROUND

#### 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. Recombinant GSTM1 protein was expressed in E. coli and purified by using conventional chromatography techniques.

#### **Amino acid Sequence**

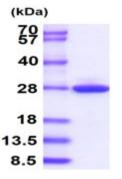
MPMILGYWNV RGLTHPIRML LEYTDSSYDE KRYTMGDAPD FDRSQWLNEK FKLGLDFPNL PYLIDGSHKI TQSNAILRYL ARKHHLDGET EEERIRADIV ENQVMDTRMQ LIMLCYNPDF EKQKPEFLKT IPEKMKLYSE FLGKRPWFAG DKVTYVDFLA YDILDQYRMF EPKCLDAFPN LRDFLARFEG LKKISAYMKS SRYIATPIFS KMAHWSNK

### **General 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.

# DATA

### SDS-PAGE



15% SDS-PAGE (3ug)

3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.