

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.

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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

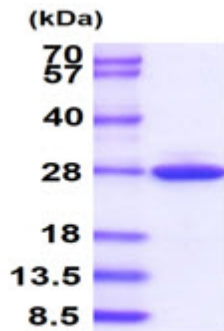
MPMILGYWNV RGLTHPIRML LEYTDSSYDE KRYTMGDAPD FDRSQWLNEK FKLGLDFPNL PYLIDGSHKI TQSNAILRYL
ARKHHL DGET EEERIRADIV ENQVMDTRMQ LIMLCYNPDF EKQKPEFLKT IPEKMKLYSE FLGKRPWFAG DKVTYVDFLA
YDILDQYRMF EPKCLDAFPN LRDFLARFEG LKKISAYMKS SRYIATPIFS KMAHWSNK

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.