Recombinant human Glutathione S-transferase Mu 5/GSTM5 protein

Catalog Number: ATGP3142

PRODUCT INFORMATION

Expression system
E.coli

Domain
1-218aa

UniProt No.
P46439

NCBI Accession No.
NP_000842

Alternative Names
Glutathione S-transferase Mu 5, GSTM5-5, GTM5

PRODUCT SPECIFICATION

Molecular Weight
28.2 kDa (242aa) confirmed by MALDI-TOF

Concentration
1mg/ml (determined by Bradford assay)

Formulation
Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 1mM DTT, 10% glycerol, 0.1M NaCl

Purity
> 95% by SDS-PAGE

Biological Activity
Specific activity is > 90,000pmol/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
His-Tag

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.

BACKGROUND

Description
Glutathione S-transferase mu 5, also known as GSTM5, is member of the glutathione s-transferase (GST) family of proteins. There are eight families of GST proteins, namely alpha, kappa, mu, omega, pi, sigma, theta and zeta, each of which is composed of proteins that have a variety of functions throughout the cell. GSTM5 plays an

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important role in detoxification. Recombinant human GSTM5 protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography techniques.

Amino acid Sequence

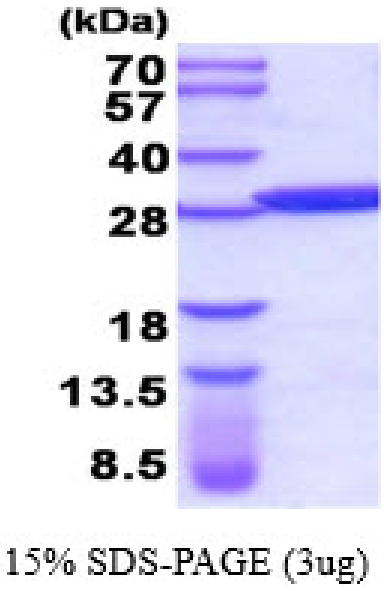
MGSSHHHHHH SSGLVPRGSH MGSHMPMTLG YWDIRGLAHA IRLLLEYTDS SYVEKKYTLG DAPDYDRSQW LNEKFKLGLD FPNLPYLIDG AHKITQSNAI LRYIARKHNL CGETEEEKIR VDILENQVMD NHMELVRLCY DPDFEKLKPK YLEELPEKLK LYSEFLGKRP WFAGDKITFV DFLAYDVLDM KRIFEPKCLD AFLNLKDFIS RFEGLKKISA YMKSSQFLRG LLFGKSATWN SK

General References

Wang Y., et al. (2009) J Hum Genet. 54(5):271-6.
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.