

Recombinant human Glutathione S-transferase mu 5/GSTM5 protein

Catalog Number: ATGP1597

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 0.1M NaCl, 10% glycerol, 1mM DTT

Purity

> 95% by SDS-PAGE

Tag

His-Tag

Application

SDS-PAGE

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 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.

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Amino acid Sequence

MGSSHHHHHH SSGLVPRGSH MGSHPMTLG YWDIRGLAHA IRLLEYTDS SYVEKKYTLG DAPDYDRSQW LNEKFKLGLD
FPNLPYLIDG AHKITQSNAI LRYIARKHNL CGETEEEEKIR VDILENQVMD NHMELVRLCY DPDFEKLKPK YLEELPEKPK
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

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

