Recombinant human Glutathione S-transferase mu 4/GSTM4 protein

Catalog Number: ATGP0649

PRODUCT INFORMATION

Expression system
E.coli

Domain
1-218aa

UniProt No.
Q03013

NCBI Accession No.
NP_000841

Alternative Names
Glutathione S-transferase Mu 4 isoform 1, GSTM4-4, GTM4, GST class-mu 4, GST-Mu2, Glutathione S-transferase Mu 4 isoform 1

PRODUCT SPECIFICATION

Molecular Weight
27.7 kDa (238aa) 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, 50mM NaCl

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 4 isoform 1, also known as GSTM4, 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. The mu class of enzymes functions in the detoxification of electrophilic compounds, including carcinogens, therapeutic drugs, environmental toxins and products of oxidative stress, by conjugation with glutathione.

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Recombinant human GSTM4 protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography techniques.

Amino acid Sequence

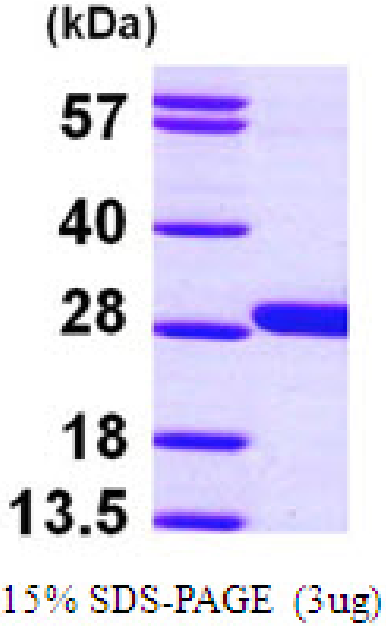
MGSSHHHHHH SSGLVPRGSH MSMTLGYWDI RGLAHAIRLL LEYTDSSYEE KKYTMGDAPD YDRSQWLNEK FKLGLDFPNL PYLIDGAHKI TQSNAILCYI ARKHNLCGET EEEKIRVDIL ENQAMDVSNQ LARVCYSPDF EKLKPEYLEE LPTMMQHFSQ FLGKRPWFVG DKITFVDFLA YDVLDLHRIF EPNCLDAFPN LKDFISRFEG LEKISAYMKS SRFLPKPLYT RVAVWGNK

General References

Boqaards JJ., et al. (1992) Biochem J. 289(2):383-8.
Rozell B., et al. (1992) Xenobiotica. 23(8):835-49.

DATA

SDS-PAGE



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