

Recombinant human Glutathione S-transferase mu 1/GSTM1 protein

Catalog Number: ATGP2611

PRODUCT INFORMATION

Expression system

E.coli

Domain

1-181aa

UniProt No.

P09488

NCBI Accession No.

NP_666533

Alternative Names

Mu-1, Mu, H-B, GTM1, GTH4, GSTM1b-1b, GSTM1a-1a, GSTM1-1, GST1, Glutathione S-transferase mu 1

PRODUCT SPECIFICATION

Molecular Weight

23.6 kDa (203aa)

Concentration

0.25mg/ml (determined by Bradford assay)

Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 0.4M urea, 10% glycerol

Purity

> 85% by SDS-PAGE

Tag

His-Tag

Application

SDS-PAGE, Denatured

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 1 isoform 2, also known as GSTM1, is a glutathione S-transferase that belongs to the mu class. GSTs (glutathione S-transferase) are differentially expressed in lung, liver and kidney tissue and, notably, three isoforms (GSTA1-1, GSTA1-4 and GSTM1) localize to the mitochondria in addition to the cytoplasm. The GSTM1 of enzymes functions in the detoxification of electrophilic compounds, including carcinogens, therapeutic drugs, environmental toxins and products of oxidative stress, by conjugation with glutathione. Recombinant human GSTM1 protein, fused to His-tag at N-terminus, was expressed in E. coli.

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Amino acid Sequence

MGSSHHHHHH SSGLVPRGSH RSMPMILGYW DIRGLAHAIR LLEYPDSSY EEKKYTMGDA PDYDRSQWLN EKFKLGLDFP
NLPYLIDGAH KITQSNAILC YIARKHNLCG ETEEEKIRVD ILENQTMDSH MQLGMICYNP EFEKLKPKYL EELPEKLLKY
SEFLGKRPF AGNKGLEKIS AYMKSSRFLP RPFVSKMAVW GNK

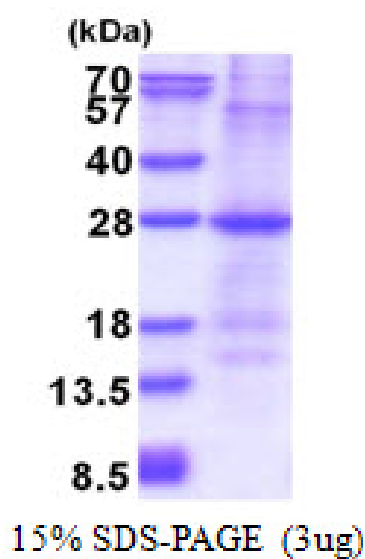
General References

Bartley P A., et al. (2003) Oncogene. 22:7570-7575.

Moretti M., et al. (2007) BMC Public Health. 7:270.

DATA

SDS-PAGE



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