Recombinant human Glutathione S-transferase zeta 1/GSTZ1 protein

Catalog Number: ATGP0491

PRODUCT INFORMATION

Expression system
E.coli

Domain
1-216aa

UniProt No.
O43708

NCBI Accession No.
AAC33591

Alternative Names
Glutathione S-transferase zeta 1, GSTZ1-1, MAAI, MAI, Glutathione S-transferase zeta 1 EC 2.5.1.18, EC 5.2.1.2

PRODUCT SPECIFICATION

Molecular Weight
26.2 kDa (236aa) confirmed by MALDI-TOF

Concentration
1mg/ml (determined by Bradford assay)

Formulation
Liquid in. Phosphate-Buffered Saline (pH 7.4) containing 10% glycerol

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
GSTZ1, also known as maleylacetoacetate isomerase, is an enzyme that belongs to glutathione S-transferase (GSTs) super-family. 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. It also plays a significant role in the catabolism of phenylalanine and tyrosine. Recombinant GSTZ1 protein was expressed in E. coli and purified by using

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conventional chromatography techniques.

Amino acid Sequence

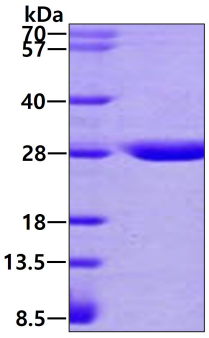
<MGSSHHHHHH SSGLVPRGSH> MQAGKPILYS YFRSSCSWRV RIALALKGID YETVPINLIK DGGQQFSKDF QALNPMKQVP TLKIDGITIH QSLAIIEYLE ETRPTPRLLP QDPKKRASVR MISDLIAGGI QPLQNLSVLK QVGEEMQLTW AQNAITCGFN ALEQILQSTA GIYCVGDEVT MADLCLVPQV ANAERFKVDL TPYPTISSIN KRLLVLEAFQ VSHPCRQPDT PTELRA

General References

Board PG, et al. (1997) Biochem J. 328:929-35.
Fernandez-Canon JM., et al. (1998) J Biol Chem. 273(1):329-37

DATA

SDS-PAGE



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