

# Recombinant human Glutathione S-transferase zeta 1/GSTZ1 protein

Catalog Number: ATGP0491

## PRODUCT INFORMATION

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### 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

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### 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

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### 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

MGSSHHHHHHH SGLVPRGSH MQAGKPILYS YFRSSCSWRV RIALALKGID YETVPINLIK DGGQQFSKDF QALNPMKQVP  
TLKIDGITIH QSLAIIEYLE ETRPTPRLLP QDPKKRASVR MISDLIAGGI QPLQNLSVLK QVGEEMQLTW AQNAITCGFN  
ALEQILQSTA GIYCVGDEVT MADLCLVPQV ANAERFKVDL TPYPTISSIN KRLLVLEAFQ VSHPCRQ PDT PTELRA

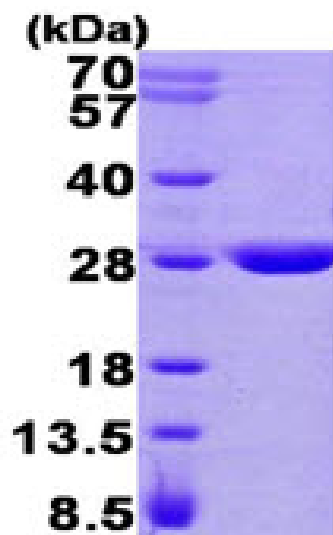
## General References

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.

15% SDS-PAGE (3ug)