

## Recombinant Human GSTZ1, His-tagged

**Cat. No.** GSTZ1-27656TH    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|-------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Recombinant full length Human Glutathione Transferase zeta 1 protein with an N terminal His tag. Predicted mwt: 26 kDa;                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Source</b>           | E.coli                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Description</b>      | This gene is a member of the glutathione S-transferase (GSTs) super-family which encodes multifunctional enzymes important in the detoxification of electrophilic molecules, including carcinogens, mutagens, and several therapeutic drugs, by conjugation with glutathione. This enzyme also plays a significant role in the catabolism of phenylalanine and tyrosine. Thus defects in this enzyme may lead to severe metabolic disorders including alkaptonuria, phenylketonuria and tyrosinaemia. Several transcript variants of this gene encode multiple protein isoforms. |
| <b>Conjugation</b>      | HIS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Form</b>             | Liquid                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Purity</b>           | >95% by SDS-PAGE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Storage buffer</b>   | Preservative: None<br>Constituents: 10% Glycerol, PBS, pH 7.4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Storage</b>          | Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |

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**Sequences of amino acids**

MGSSHHHHHH SSGLVPRGSH MQAGKPILYS YFRSSCSWRV RIALALKGID  
 YETVPINLIK DGGQQFSKDF QALNPMKQVP TLKIDGITIY QSLAIIIEYLE  
 ETRPTPRLLP QDPKKRASVR MISDLIAGGI QPLQNLSVLK QVGEEMQLTW  
 AQNAITCGFN ALEQILQSTA GIYCVGDEVT MADLCLVPQV ANAERFKVDL  
 TPYPTISSIN KRLLVLEAFQ VSHPCRQPDPT PTELRA

**Full Length** Full L.

## GENE INFORMATION

**Gene Name** [GSTZ1 glutathione transferase zeta 1 \[ Homo sapiens \]](#)

**Official Symbol** [GSTZ1](#)

**Synonyms** GSTZ1; glutathione transferase zeta 1; maleylacetoacetate isomerase; GSTZ1 1; MAAI; MAI;

**Gene ID** [2954](#)

**mRNA Refseq** [NM\\_001513](#)

**Protein Refseq** [NP\\_001504](#)

**MIM** [603758](#)

**Uniprot ID** [O43708](#)

**Chromosome Location** 14q24.3

**Pathway** Drug metabolism - cytochrome P450, organism-specific biosystem; Drug metabolism

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- cytochrome P450, conserved biosystem; Glutathione metabolism, organism-specific biosystem; Glutathione metabolism, conserved biosystem; Metabolic pathways, organism-specific biosystem;

**Function**

glutathione peroxidase activity; glutathione transferase activity; isomerase activity; maleylacetoacetate isomerase activity; maleylacetoacetate isomerase activity;

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