

Recombinant Human Glutathione transferase zeta 1, His-tagged

Cat. No. GSTZ1-1947H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant GSTZ1 protein fused to his-tag was expressed in <i>E.coli</i> and purified by using conventional chromatography techniques, 26.2 kDa (236aa).
Species	Human
Source	E.coli
Protein Length	1-261 a.a.
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.
Purity	> 95% by SDS – PAGE.
Physical Appearance	Liquid.
Formulation	In Phosphate Buffered Saline pH7.4 containing 10% glycerol.
Concentration	1.0 mg/ml (determined by Bradford assay).

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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 VSHPCRQPDT PTELRA.
Storage	Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.
Pathways	Drug metabolism - cytochrome P450; Glutathione metabolism; Metabolic pathways; Metabolism of xenobiotics by cytochrome P450; Tyrosine metabolism; Metabolism of amino acids and derivatives
GENE INFORMATION	
Gene Name	GSTZ1 glutathione transferase zeta 1 [Homo sapiens]
Synonyms	GSTZ1; glutathione transferase zeta 1; MAI; MAAI; GSTZ1-1; MGC2029; maleylacetone isomerase; maleylacetoacetate isomerase; glutathione S-aryltransferase; glutathione S-alkyltransferase; glutathione S-aralkyltransferase; glutathione s-transferase Zeta 1; S-(hydroxyalkyl)glutathione lyase; EC 5.2.1.2, EC 2.5.1.18
Gene ID	2954
mRNA Refseq	NM_001513
Protein Refseq	NP_001504
MIM	603758

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UniProt ID	O43708
Chromosome Location	14q24.3
Function	glutathione peroxidase activity; glutathione transferase activity; isomerase activity; maleylacetoacetate isomerase activity; protein binding; transferase activity
PDB rendering based on 1fw1.	