

Product datasheet for **AR09390PU-L**

Maleylacetoacetate isomerase / GSTZ1 (1-216, His-tag) Human Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Maleylacetoacetate isomerase / GSTZ1 (1-216, His-tag) human recombinant protein, 0.5 mg
Species:	Human
Expression Host:	E. coli
Expression cDNA Clone or AA Sequence:	<u>MGSSHHHHHH SSGLVPRGSH</u> MQAGKPILYS YFRSSCSWRV RIALALKGID YETVPINLIK DGGQQFSKDF QALNPMKQVP TLKIDGITIH QSLAIEYLE ETRPTPRLLP QDPKKRASVR MISDLIAGGI QPLQNLVSK QVGEEMQLTW AQNAITCGFN ALEQILQSTA GIYCVGDEV T MADLCLVPQV ANAERFKVDL TPYPTISSIN KRLLVLEAFQ VSHPCRQPD T PTELRA
Tag:	His-tag
Predicted MW:	26.2 kDa
Concentration:	lot specific
Purity:	>95% by SDS - PAGE
Buffer:	Presentation State: Purified State: Liquid purified protein Buffer System: PBS, pH 7.4, containing 10% glycerol
Preparation:	Liquid purified protein
Protein Description:	Recombinant GSTZ1 protein, fused to His-tag, was expressed in E.coli and purified by using conventional chromatography techniques.
Storage:	Store undiluted at 2-8°C for up to two weeks or (in aliquots) at -20°C or -70°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
RefSeq:	<u>NP_001299589</u>
Locus ID:	2954
UniProt ID:	<u>O43708</u>
Cytogenetics:	14q24.3
Synonyms:	GSTZ1-1; MAAI; MAAID; MAI



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Summary:

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 catalyzes the conversion of maleylacetoacetate to fumarylacetoacetate, which is one of the steps in the phenylalanine/tyrosine degradation pathway. Deficiency of a similar gene in mouse causes oxidative stress. Several transcript variants of this gene encode multiple protein isoforms. [provided by RefSeq, Jul 2015]

Protein Families:

Druggable Genome

Protein Pathways:

Drug metabolism - cytochrome P450, Glutathione metabolism, Metabolic pathways, Metabolism of xenobiotics by cytochrome P450, Tyrosine metabolism

Product images: