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## Datasheet for ABIN1097128 **GSTZ1 Protein (AA 1-216) (His tag)**

### Overview

Quantity:	50 µg
Target:	GSTZ1
Protein Characteristics:	AA 1-216
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Purification tag / Conjugate:	This GSTZ1 protein is labelled with His tag.

### Product Details

Purpose:	Recombinant Human Maleylacetoacetate Isomerase/MAA/GSTZ1 (C-6His)
Sequence:	MQAGKPILYS YFRSSCSWRV RIALALKGID YETVPINLIK DGGQQFSKDF QALNPMKQVP TLKIDGITIH QSLAIIEYLE EMRPTPRLLP QDPKKRASVR MISDLIAGGI QPLQNLSVLK QVGEEMQLTW AQNAITCGFN ALEQILQSTA GIYCVGDEVT MADLCLVPQV ANAERFKVDL TPYPTISSIN KRLLVLEAFQ VSHPCRQPDT PTELRALEHH HHHH
Characteristics:	Recombinant Human Maleylacetoacetate Isomerase/MAAI is produced by our E. coli expression system. The target protein is expressed with sequence (Met1-Ala216) of Human GSTZ1 fused with a 6His tag at the C-terminus.
Purity:	> 95 % as determined by reducing SDS-PAGE.
Sterility:	0.2 µm filtered
Endotoxin Level:	Less than 0.1 ng/µg (1 IEU/µg) as determined by LAL test

## Target Details

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Target:	GSTZ1
Alternative Name:	Maleylacetoacetate Isomerase/MAAI ( <a href="#">GSTZ1 Products</a> )
Sub Type:	Fusionprotein
Background:	<p>Maleylacetoacetate Isomerase (MAAI) belongs to the Glutathione S-Transferase super-family. MAAI encodes multifunctional enzymes in the detoxification of electrophilic molecules by conjugation with glutathione, for example, mutagens, carcinogens and several therapeutic drugs. MAAI is a bifunctional protein with low glutathione peroxidase activity with T-butyl and cumene hydroperoxides. MAAI can catalyze the glutathione dependent oxygenation of dichloroacetic acid to glyoxylic acid. But it has minimal glutathione-conjugating activity with 7-chloro-4-nitrobenz-2-oxa-1, ethacrynic acid 3-diazole and maleylacetoacetate isomerase activity.</p> <p>Alternative Names: Maleylacetoacetate Isomerase, MAAI, GSTZ1-1, Glutathione S-Transferase Zeta 1, GSTZ1</p>
Molecular Weight:	25.18 kDa
UniProt:	<a href="#">O43708</a>

## Application Details

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Restrictions: For Research Use only

## Handling

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Format:	Liquid
Reconstitution:	<p>It is not recommended to reconstitute to a concentration less than 100 µg/mL.</p> <p>Dissolve the lyophilized protein in ddH<sub>2</sub>O.</p> <p>Please aliquot the reconstituted solution to minimize freeze-thaw cycles.</p>
Buffer:	Supplied as a 0.2 µm filtered solution of 50 mM TrisHCl, 1 mM DTT, pH 8.0.
Preservative:	Dithiothreitol (DTT)
Precaution of Use:	This product contains Dithiothreitol (DTT): a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling Advice:	Always centrifuge tubes before opening. Do not mix by vortex or pipetting.
Storage:	-80 °C
Storage Comment:	Store at < -20°C, stable for 6 months after receipt.

## Handling

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Please minimize freeze-thaw cycles.

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Expiry Date: 6 months