

## Recombinant Human MAA/GSTZ1 Protein (His Tag)

**Catalog No.** PKSH032732

**Note:** Centrifuge before opening to ensure complete recovery of vial contents.

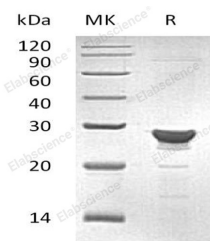
### Description

|                                    |  |
|------------------------------------|--|
| <b>Synonyms</b>                    | Maleylacetoacetate Isomerase;MAAI;GSTZ1-1;Glutathione S-Transferase Zeta 1;GSTZ1 |
| <b>Species</b>                     | Human  |
| <b>Expression Host</b>             | E.coli   |
| <b>Sequence</b>                    | Met 1-Ala216   |
| <b>Accession</b>                   | O43708   |
| <b>Calculated Molecular Weight</b> | 25.2 kDa   |
| <b>Observed molecular weight</b>   | 25-30 kDa  |
| <b>Tag</b>                         | C-His  |
| <b>Bioactivity</b>                 | Not validated for activity   |

### Properties

|                       |   |
|-----------------------|---|
| <b>Purity</b>         | > 95 % as determined by reducing SDS-PAGE.  |
| <b>Endotoxin</b>      | < 1.0 EU per µg of the protein as determined by the LAL method.   |
| <b>Storage</b>        | Store at < -20°C, stable for 6 months. Please minimize freeze-thaw cycles.  |
| <b>Shipping</b>       | This product is provided as liquid. It is shipped at frozen temperature with blue ice/gel packs. Upon receipt, store it immediately at < -20°C. |
| <b>Formulation</b>    | Supplied as a 0.2 µm filtered solution of 50mM Tris-HCl, 1mM DTT, pH 8.0.   |
| <b>Reconstitution</b> | Not Applicable  |

### Data



> 95 % as determined by reducing SDS-PAGE.

### Background

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

### For Research Use Only

7-chloro-4-nitrobenz-2-oxa-1, ethacrynic acid 3-diazole and maleylacetoacetate isomerase activity.