

## 32-8067: Recombinant Human Maleylacetoacetate Isomerase/MAA/GSTZ1 (C-6His)

**Gene :** GSTZ1  
**Gene ID :** 2954  
**Uniprot ID :** O43708

### Description

Source: E.coli.  
MW :25.18kD.

Recombinant Human Glutathione S-Transferase Zeta 1 is produced by our E.coli expression system and the target gene encoding Met1-Ala216 is expressed with a 6His tag at the C-terminus. 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.

### Product Info

**Amount :** 10 µg / 50 µg  
**Content :** Supplied as a 0.2 µm filtered solution of 50mM TrisHCl, 1mM DTT, pH 8.0.  
**Storage condition :** Store at -20°C, stable for 6 months after receipt. Please minimize freeze-thaw cycles.  
**Amino Acid :** MQAGKPILYSYFRSSCSWRVRIALALKGIDYETVPINLIKDGGOQFSKDFQALNPMKQVPTLKIDGITIHQSLAIIIE  
YLEEMRPTPRLLPQDPKKRASVRMISDLIAGGIQPLQNSVLKQVGEEMQLTWAQNAITCGFNALEQILQSTAGI  
YCVGDEVTMADLCLVPQVANAERFKVDLTPYPTISSINKRLLVLEAFQVSHPCRQPDTPTELRALEHHHHHHH

### Application Note

**Endotoxin :** Less than 0.1 ng/µg (1 IEU/µg) as determined by LAL test.