



Recombinant Protein Technical Manual
Recombinant Human MAA/GSTZ1 Protein (His Tag)
RPES4159

Product Data:

Product SKU: RPES4159

Size: 10µg

Species: Human

Expression host: E. coli

Uniprot: O43708

Protein Information:

Molecular Mass: 25.2 kDa

AP Molecular Mass: 26 kDa

Tag: C-6His

Bio-activity:

Purity: > 95 % as determined by reducing SDS-PAGE.

Endotoxin: < 1.0 EU per µg as determined by the LAL method.

Storage: Store at < -20°C, stable for 6 months. Please minimize freeze-thaw cycles.

Shipping: 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.

Formulation: Supplied as a 0.2 µm filtered solution of 50mM TrisHCl, 1mM DTT, pH 8.0.

Reconstitution: Please refer to the printed manual for detailed information.

Application:

Synonyms: Maleylacetoacetate Isomerase; MAAI; GSTZ1; Glutathione S-Transferase Zeta 1; GSTZ1

Immunogen Information:

Sequence: Met 1-Ala216

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