

# Recombinant human Glutathione S-transferase omega 1/GSTO1 protein

Catalog Number: ATGP0474

## PRODUCT INFORMATION

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### Expression system

E.coli

### Domain

1-241aa

### UniProt No.

P78417

### NCBI Accession No.

NP\_004823.1

### Alternative Names

Glutathione S-transferase omega-1, GSTTLp28, P28, Glutathione S-transferase omega-1 Glutathione S transferase mu, GST class Mu, GST class mu 1, GST mu, GST1, GSTM1.

## PRODUCT SPECIFICATION

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### Molecular Weight

27.5 kDa (241aa) confirmed by MALDI-TOF

### Concentration

1mg/ml (determined by Bradford assay)

### Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 1mM DTT 10% glycerol

### Purity

> 95% by SDS-PAGE

### Tag

Non-Tagged

### Application

SDS-PAGE

### Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

## BACKGROUND

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### Description

GSTO1, also known as p28 or GSTTLp28, is a protein that localizes to the cytoplasm and contains both an N-terminal and a C-terminal GST domain. In mouse, the encoded protein acts as a small stress response protein, likely involved in cellular redox homeostasis. This protein has dehydroascorbate reductase activity and may function in the glutathione-ascorbate cycle as part of antioxidant metabolism. Recombinant human GSTO1 protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional

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chromatography techniques.

## Amino acid Sequence

MSGESARSLG KGSAPPGPVP EGSIRIYSMR FCPFAERTRL VLKAKGIRHE VININLKNKP EWFFKKNPFG LVPVLENSQG  
QLIYESAITC EYLDEAYPGK KLLPDDPYEK ACQKMILELF SKVPSLVGSF IRSQNKEDYA GLKEEFRKEF TKLEEVLTNK  
KTTFFGGNSI SMIDYLIWPW FERLEAMKLN ECV DHTPKLK LWMAAMKEDP TVSALLTSEK DWQGFLELYL QNSPEACDYG L

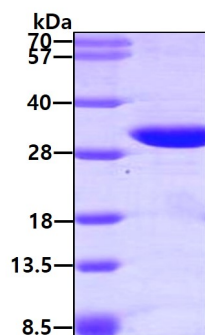
## General References

Ruiz-Romero C., et al. (2008) Proteomics. 8(3):495-507.

## DATA

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### SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain