

Recombinant human Glutathione S-transferase omega 1/GSTO1 protein

Catalog Number: ATGP0474

PRODUCT INFORMATION

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

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

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

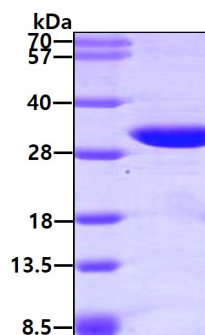
MSGESARSLG KGSAPPGPVP EGSIRIYSMR FCPFAERTRL VLKAKGIRHE VININLKNKP EWFFKKNPFG LVPVLENSQG
QLIYESAITC EYLDEAYPGK KLLPDDPYEK ACQKMILELF SKVPSLVGSF IRSQNKEDYA GLKEEFRKEF TKLEEVLTNK
KTTFFGGNSI SMIDYLIWPW FERLEAMKLN ECV DHTPKLK LWMAAMKEDP TVSALLTSEK DWQGFLELYL QNSPEACDYG L

General References

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

DATA

SDS-PAGE



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