

Recombinant Human Glutathione S-transferase Omega 1

Cat. No. GSTO1-498H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human GSTO1 protein was expressed in <i>E.coli</i> and purified by using conventional chromatography techniques, 27.5 kDa (241aa).
Species	Human
Source	<i>E.coli</i>
Protein Length	1-241 aa
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.
Sequences Of Amino Acids	MSGESARSLG KGSAPPGPVP EGSIRIYSMR FCPFAERTRL VLKAKGIRHE VININLKNKP EWFFKKNPFG LVPVLENSQG QLIYESAITC EYLDEAYPGK KLLPDDPYEK ACQKMILELF SKVPSLVGSF IRSQNKEDYA GLKEEFRKEF TKLEEVLTNK KTTFFGGNSI SMIDYLIWPW FERLEAMKLN ECVDHTPKLLK LWMAAMKEDP TVSALLTSEK DWQGFLELYL QNSPEACDYG L.
Formulation	Liquid. In 20 mM Tris-HCl buffer (pH8.0) containing 1mM DTT and 10% glycerol.
Purity	> 95% by SDS – PAGE.

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

Concentration	1 mg/ml (determined by Bradford assay).
Storage	Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.
Pathways	Drug metabolism - cytochrome P450; Glutathione metabolism; Metabolism of xenobiotics by cytochrome P450; Biological oxidations; Metabolism of vitamins and cofactors

GENE INFORMATION

Gene Name	GSTO1 glutathione S-transferase omega 1 [Homo sapiens]
Synonyms	P28; GSTTLp28; DKFZp686H13163; GSTO1; glutathione S-transferase omega 1; glutathione S-transferase omega-1; GSTO-1; glutathione-S-transferase like; glutathione transferase omega 1; glutathione S-transferase omega 1-1; GSTO 1-1; glutathione-S-transferase omega 1; EC 2.5.1.18; GSTTLP28
Gene ID	9446
mRNA Refseq	NM_004832
Protein Refseq	NP_004823
MIM	605482
UniProt ID	P78417
Chromosome Location	10q25.1

 Tel: 1-631-559-9269 1-516-512-3133

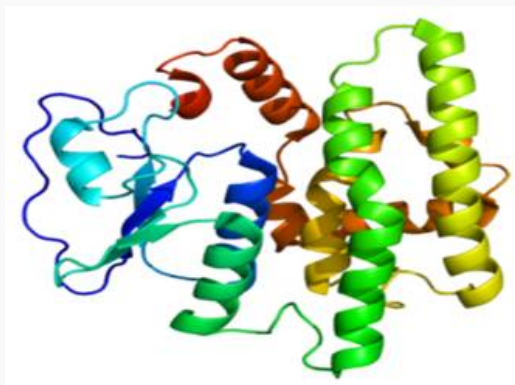
 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

Function

glutathione transferase activity; monodehydroascorbate reductase (NADH) activity; transferase activity

**PDB rendering based
on 1eem**



 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA