

Recombinant Human Glutathione S-transferase omega-1/GSTO-1/SPG-R Protein

Catalog No.: RP01494LQ

Sequence Information

Species	Gene ID
Human	9446
Swiss Prot	Tags
P78417	C-His

Synonyms

GSTO 1-1, GSTTLp28, HEL-S-21, P28, SPG-R, GSTO1, GSTO 1-1, GSTO1-1, glutathione S-transferase omega-1, GSTTLp28, HEL-S-21, P28, SPG-R, GSTO1-1

Product Information

Source	Purification
<i>E. coli</i>	≥ 95 % as determined by SDS-PAGE.

Calculated MW	Observed MW
28.27 kDa	30-35 kDa

Endotoxin

< 0.1 EU/μg of the protein by LAL method.

Formulation

Supplied as a 0.22 μm filtered solution in 20 mM Tris, 150 mM NaCl, 10% glycerol, pH 8.0.

Reconstitution

Background

Exhibits glutathione-dependent thiol transferase and dehydroascorbate reductase activities. Has S-(phenacyl)glutathione reductase activity. Has also glutathione S-transferase activity. Participates in the biotransformation of inorganic arsenic and reduces monomethylarsonic acid (MMA) and dimethylarsonic acid.

Basic Information

Description

Recombinant Human Glutathione S-transferase omega-1/GSTO-1/SPG-R Protein is produced by *E. coli* expression system. The target protein is expressed with sequence (Ser2-Leu241) of human GSTO1 (Accession #NP_004823.1) fused with a 6×His tag at the C-terminus.

Activity

1. Measured by its binding ability in a functional ELISA. Immobilized Human GSTO1 at 1 μg/mL (100 μL/well) can bind GSTO1 Rabbit mAb with a linear range of 0.5–4.33 ng/mL.
2. Measured by its binding ability in a functional ELISA. Immobilized Human Annexin A5 at 10 μg/mL (100 μL/well) can bind Human GSTO1 with a linear range of 0.15–3.16 μg/mL.

Shipping

Lyophilized proteins are shipped at ambient temperature.
Liquid proteins are shipped at frozen temperature with dry ice.
Upon receipt, store it immediately at the temperature recommended below.

Storage

Store at -70°C

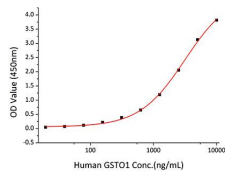
Operational Notes

For your safety and health, please wear a lab coat and disposable gloves for handling.

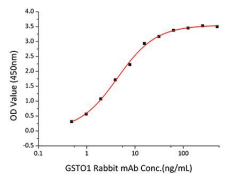
Contact

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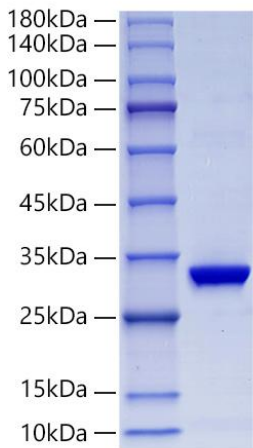
Validation Data



Immobilized recombinant Human Annexin A5 at 10 μ g/mL (100 μ L/well) can bind Human GSTO1 with a linear range of 0.15-3.16 μ g/mL.



Immobilized recombinant Human GSTO1 at 1 μ g/mL (100 μ L/well) can bind GSTO1 Rabbit mAb with a linear range of 0.5-4.33ng/mL.



Recombinant Human Glutathione S-transferase omega-1/GSTO-1/SPG-R Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.