Recombinant Human Glutaredoxin 1/GRX1 Protein

Catalog No.: RP03539

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Sequence Information

Species
Human

Gene ID
2745

Swiss Prot
P35754

Tags
N-His

Synonyms
GLRX, GRX，Glutaredoxin-1, Thioltransferase-1, TTase-1

Product Information

Source
E. coli

Purification
≥ 85 % as determined by SDS-PAGE.

Calculated MW
13.6 KDa

Observed MW
10-15 KDa

Endotoxin
Please contact us for more information.

Formulation
Lyophilized from sterile 50mM Tirs, 10% Glycerol, 1mM DTT, pH 8.0. Please contact us for any concerns or special requirements.Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization.

Reconstitution
Centrifuge the vial before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stablizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

Background

Glutaredoxin 1/GRX1, belongs to theglutaredoxin family. Glutaredoxinsare smallredoxenzymes that useglutathioneas a cofactor. Glutaredoxins are oxidized by substrates, and reduced non-enzymatically by glutathione. Glutaredoxin-1 functions as an electron carrier in the glutathione-dependent synthesis of deoxyribonucleotides by the enzyme ribonucleotide reductase. Glutaredoxin-1 exists in either a reduced or an oxidized form. Glutaredoxins function as electron carriers in the glutathione-dependent synthesis ofdeoxyribonucleotidesby the enzymeribonucleotide reductase.

Basic Information

Description
Recombinant Human Glutaredoxin 1/GRX1 Protein is produced by E. coli cells expression system. The target protein is expressed with sequence (Met1-Gln106) of Human Glutaredoxin 1/GRX1(Accession # P35754) fused with His tag at the N-terminus. .

Activity

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 -20℃

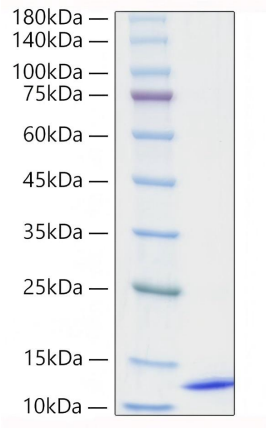
Operational Notes
For your safety and health, please wear a lab coat and disposable gloves for handling.

Contact

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Validation Data



Recombinant Human Glutaredoxin 1/GRX1 Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.

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