

Recombinant Human Glutaredoxin 1/GRX1 Protein

Catalog No.: RP03539 Recombinant

Sequence Information

Species Gene ID Swiss Prot Human 2745 P35754

Tags

N-His

Synonyms

GLRX; GRX[Glutaredoxin-1; Thioltransferase-1; TTase-1

Product Information

Source Purification *E. coli* ≥ 85 % as

determined by SDS-

PAGE.

Calculated MW Observed MW

13.6 KDa 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.

Contact

400-999-6126

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. .

Bio-Activity

Shipping

The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.

Storage

Store at -20° C. Store the lyophilized protein at -20° C to -80° C up to 1 year from the date of receipt.

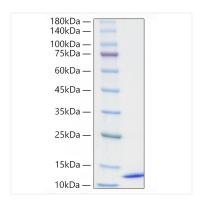
After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week.

Avoid repeated freeze/thaw cycles.

Operational Notes

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

Validation Data



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