Recombinant Human Thioredoxin/SASP/TXN Protein

Catalog No.: RP00036 Recombinant 1 Publications

Sequence Information

Species	Gene ID	Swiss Prot
Human	7295	P10599

Tags C-His

Synonyms TRDX; TRX; TRX1;TXN;TRX;TRX1

Product Information

Source	Purification
E. coli	≥ 95 % as
	determined by SDS- PAGE.

Calculated MW	Observed MW
12.45 kDa	15 kDa

Endotoxin

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

Formulation

Lyophilized from a 0.22 µm filtered solution of 20mM Tris. 150mM NaCl. pH 8.0.Contact us for customized product form or formulation.

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

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Background

Thioredoxin, also known as ATL-derived factor. Surface-associated sulphydryl protein. SASP and TXN, is a nucleus, cytoplasm and secreted protein which belongs to the thioredoxin family. Trx-1 is the only extracellular occurring thioredoxin, and is secreted by lymphocytes, hepatocytes, fibroblasts, and several tumor cells. Plasma concentrations of Trx-1 are up to 6 nM . In cells, Trx-1 is localized predominantly in the cytoplasm. Small amounts have been detected in the nucleus and in association with the outside surface of the cells. Biological functions of Trx-1 include growth factor activity, antioxidant properties, a cofactor that provides reducing equivalents, and transcriptional regulation.

Basic Information

Description

Recombinant Human Thioredoxin/SASP/TXN Protein is produced by E. coli expression system. The target protein is expressed with sequence (Val2-Val105) of human Thioredoxin (Accession #NP 003320.2) fused with a 6×His tag at the C-terminus.

Bio-Activity

1.Measured by its binding ability in a functional ELISA. Immobilized Human TXN Protein at 1 µg/mL (100 µL/well) can bind TXN Rabbit mAb with a linear range of 0.976-5.3 ng/mL.]2.Measured by its ability to catalyze the reduction of insulin. The reaction leads to precipitation, which can be measured by absorbance at 650 nm. The specific activity is >9 A650/min/mg.

Storage

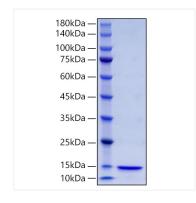
Store at -20°C.Store the lyophilized protein at -20°C to -80 °C up to 1 year from the date of receipt.

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

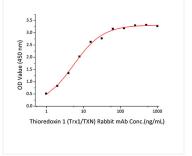
Avoid repeated freeze/thaw cycles.



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Recombinant Human Thioredoxin/SASP/TXN Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.



Immobilized recombinant Human TXN Protein at 1μ g/mL (100 μ L/well) can bind TXN Rabbit mAb with a linear range of 0.976-5.3ng/mL.