

Recombinant Human Thioredoxin-2/MTRX/TXN2 Protein

Catalog No.: RP02177

Sequence Information

Species **Gene ID**
Human 25828

Swiss Prot **Tags**
Q99757 N-His

Synonyms

COXPD29, MT-TRX, MTRX, TRX2, TXN, TXN2, MT-TRX, MTRX, TRX2, TXN

Product Information

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

Calculated MW **Observed MW**
12 kDa 13 kDa

Endotoxin

< 1 EU/μg of the protein by LAL method.

Formulation

Lyophilized from a 0.22 μm filtered solution of PBS, pH 7.4.

Reconstitution

Centrifuge the tube 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 stabilizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

Background

Thioredoxin-2 (TXN2) is a mitochondrial member of the thioredoxin family. Thioredoxin-2 is extensively expressed in adult and fetal tissues. Thioredoxin-2 contains an N-terminal 59 amino acid transit peptide, which is cleaved before translocating to mitochondria. Mitochondrial thioredoxin play important roles in the regulation of the mitochondrial membrane potential and in protection against oxidant-induced apoptosis. Thioredoxin-2 could be involved in the resistance to anti-tumor agents and possesses a dithiol-reducing activity. In addition, Thioredoxin-2 is important at low oxidative stress conditions.

Basic Information

Description

Recombinant Human Thioredoxin-2/MTRX/TXN2 Protein is produced by *E. coli* expression system. The target protein is expressed with sequence (Thr60-Gly166) of human TXN2 (Accession #Q99757) fused with a 6xHis 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°C

Operational Notes

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

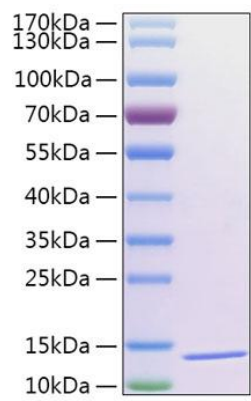
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Validation Data



Recombinant Human Thioredoxin-2/MTRX/TXN2 Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.