

Recombinant Human Thioredoxin-2/MTRX/TXN2 Protein

Catalog No.: RP02177 **Recombinant**

Sequence Information

Species	Gene ID	Swiss Prot
Human	25828	Q99757

Tags

N-His

Synonyms

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

Product Information

Source	Purification
<i>E. coli</i>	> 95% 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 0.2 μm filtered solution of 20mM PB, 150mM NaCl, pH 7.4. Contact us for customized product form or formulation.

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.

Contact

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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.

Bio-Activity

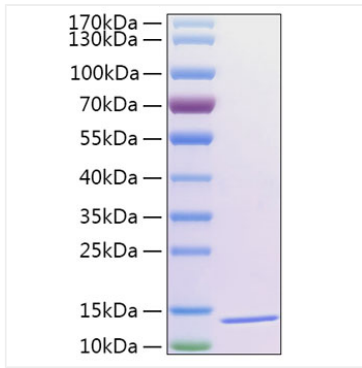
Storage

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.

Validation Data



Recombinant Human
Thioredoxin-2/MTRX/TXN2 Protein was
determined by SDS-PAGE with Coomassie
Blue, showing a band at 13kDa.