

# Human Thioredoxin/TXN/SASP recombinant protein



Catalog Number: 500784

## General Information

### Gene Name Synonym

ATL-derived factor; Surface-associated sulphhydryl protein

### Protein Construction

A DNA sequence encoding the C-terminal segment of human TXN (P10599) (Met 1-Val 105) was expressed and purified.

### Organism

Human

### Expression Host

E. coli

## QC Testing

### Activity

1. Measured by its ability to catalyze the reduction of insulin. The specific activity is 5-9 pmoles/min/ $\mu$ g.
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 5-10 A<sub>650</sub>/min/mg.

### Purity

> 97 % as determined by SDS-PAGE

### Endotoxin

Please contact us for more information.

### Stability

Samples are stable for up to twelve months from date of receipt at -70°C

### Predicted N terminal

Met

### Molecular Mass

The recombinant human TXN comprises 105 amino acids and predicts a molecular mass of 11.7 kDa. It migrates as an approximately 14 kDa band in SDS-PAGE under reducing conditions.

### Formulation

- Lyophilized from sterile PBS, pH 7.5
1. 5 % trehalose and mannitol are added as protectants before lyophilization.
  2. Please contact us for any concerns or special requirements.

## Usage Guide

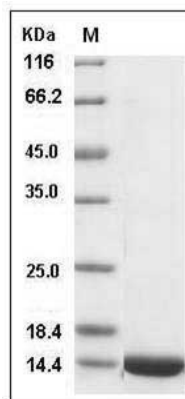
### Storage

Store it under sterile conditions at -20°C to -80°C. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

### Reconstitution

Adding sterile water, prepare a stock solution of 0.25 mg/ml. Concentration is measured by UV-Vis.

### SDS-PAGE



Human Thioredoxin / TXN / SASP Protein SDS-PAGE