

## 32-7160: Recombinant Human Thioredoxin-2/TXN2 (N-6His)

**Gene :** TXN2  
**Gene ID :** 25828  
**Uniprot ID :** Q99757

### Description

Source: E.coli.  
MW :12kD.

Recombinant Human Thioredoxin-2 is produced by our E.coli expression system and the target gene encoding Thr60-Gly166 is expressed with a 6His tag at the N-terminus. 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.

### Product Info

**Amount :** 10 µg / 50 µg  
**Content :** Lyophilized from a 0.2 µm filtered solution of 20mM PB, 150mM NaCl, pH 7.4.  
**Storage condition :** Lyophilized protein should be stored at -20°C, though stable at room temperature for 3 weeks. Reconstituted protein solution can be stored at 4-7°C for 2-7 days. Aliquots of reconstituted samples are stable at -20°C for 3 months.  
**Amino Acid :** MTTFNIQDGPDPFQDRVVNSETPVVDFHAQWCGPCKILGPRLEKMKVAKQHKGKVVMAKVDIDDHTD LAIEYEVSAVPTVLAMKNGDVVDKFGIKDEDQLEAFLKKLIG

### Application Note

Always centrifuge tubes before opening. Do not mix by vortex or pipetting. It is not recommended to reconstitute to a concentration less than 100 µg/ml. Dissolve the lyophilized protein in ddH<sub>2</sub>O. Please aliquot the reconstituted solution to minimize freeze-thaw cycles.

**Endotoxin :** Less than 0.1 ng/µg (1 IEU/µg) as determined by LAL test.