

Human Recombinant Thioredoxin 2

CATALOG #:	6318-100	100 µg
ALTERNATE NAMES:	MTRX, TRX2, MT-TRX	
SOURCE:	E.Coli	
PURITY:	> 95% by SDS - PAGE	
MOL. WEIGHT:	11 kDa (108 aa, 60-166aa), confirmed by MALDI-TOF	
FORMULATION:	1 mg/ml solution in PBS (pH 7.4).	

STORAGE CONDITIONS:

Can be stored at 4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.

DESCRIPTION:

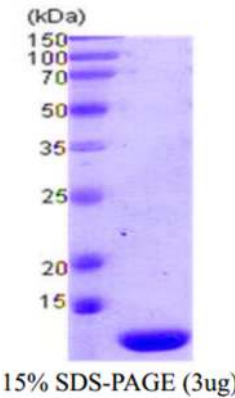
Thioredoxin 2 also known as mitochondrial Thioredoxin in humans is encoded by the TXN2 gene. This nuclear gene encodes a mitochondrial member of the thioredoxin family, a group of small multifunctional redox-active proteins. The encoded protein may play important roles in the regulation of the mitochondrial membrane potential and in protection against oxidant-induced apoptosis.

AMINO ACID SEQUENCE:

MTTFNIQDGP DFQDRVNSE TPVVDFHAQ WCGPCKILGP RLEKMQVAKQH
GKVVMAKVVDI DDHTDLAIEY EVSAVPTVLA MKNGDVVDKF VGIKDEDQLE AFLKKLIG

BIOLOGICAL ACTIVITY:

Specific activity is 3-4 A650/min/mg, obtained by measuring the increase of insulin precipitation in absorbance at 650 nm resulting from the reduction of insulin.



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RELATED PRODUCTS:

- Thioredoxin Reductase Assay kit (Cat. No. K763-100)
- Human Recombinant Thioredoxin 1 (Cat. No. 6305-100)

FOR RESEARCH USE ONLY! Not to be used in humans.