

TXN2 Protein, Human (His)

Cat. No.:	HY-P71393
Synonyms:	Thioredoxin Mitochondrial; MTRX; Mt-Trx; Thioredoxin-2; TXN2; TRX2
Species:	Human
Source:	E. coli
Accession:	Q99757 (T60-G166)
Gene ID:	25828
Molecular Weight:	Approximately 13 kDa

PROPERTIES

AA Sequence	<p>T T F N I Q D G P D F Q D R V V N S E T P V V V D F H A Q W C G P C K I L G P R</p> <p>L E K M V A K Q H G K V V M A K V D I D D H T D L A I E Y E V S A V P T V L A M</p> <p>K N G D V V D K F V G I K D E D Q L E A F L K K L I G</p>
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 µm filtered solution of PBS, pH 7.4.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH ₂ O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background	<p>The TXN2 protein plays a crucial role in maintaining the delicate balance of mitochondrial reactive oxygen species (ROS) homeostasis, governing apoptosis regulation, and ensuring cell viability. Its distinctive dithiol-reducing activity emphasizes its ability to finely tune redox equilibrium within the cellular environment, contributing significantly to overall cellular health. Operating as a monomer, TXN2 emerges as a central figure in essential cellular processes, underscoring its importance in safeguarding mitochondrial function and promoting sustained cell viability.</p>
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Caution: Product has not been fully validated for medical applications. For research use only.

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