

TMX1 Protein, Human (HEK293, Fc)

Cat. No.:	HY-P76681
Synonyms:	Thioredoxin-related transmembrane protein 1; TMX; TXNDC; TXNDC1
Species:	Human
Source:	HEK293
Accession:	AAH36460 (R27-S180)
Gene ID:	81542
Molecular Weight:	Approximately 45-50 kDa due to the glycosylation.

PROPERTIES

AA Sequence	R R S N V R V I T D E N W R E L L E G D W M I E F Y A P W C P A C Q N L Q P E W E S F A E W G E D L E V N I A K V D V T E Q P G L S G R F I I N A L P T I Y H C K D G E F R R Y Q G P R T K K D F I N F I S D K E W K S I E P V S S W F G P G S V L M S S M S A L F Q L S M W I R T C H N Y F I E D L G L P V W G S
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>TMX1 Protein can participate in various oxidation-reduction reactions, both oxidizing and reducing disulfide bonds, and selectively acting on membrane-associated polypeptides^[1].</p> <p>As a thiol tumor suppressor, TMX1 Protein can increase mitochondrial ATP production and apoptosis progression. Under oxidative conditions, TMX1 Protein interacts with SERCA2b in a thiol-dependent manner, thereby reducing SERCA activity and reducing endoplasmic reticulum Ca²⁺ load^[2].</p> <p>The extracellular TMX1 protein has a negative regulatory effect on the activation of α_{IIb}β₃ integrin and platelet aggregation^[3].</p>
------------	--

Caution: Product has not been fully validated for medical applications. For research use only.

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA