

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 44.4 kDa

PROPERTIES

Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 μ m filtered solution of PBS, pH 7.4. Normally 5% - 8% trehalose, mannitol and 0.01% Tween 80 are added as protectants before lyophilization.
Endotoxin Level	<1 EU/ μ g, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 μ g/mL in ddH ₂ O.
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 αIIbβ3 integrin and platelet aggregation^[3].</p>
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Caution: Product has not been fully validated for medical applications. For research use only.

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