

Recombinant Human TMX2 Protein, His-tagged

Cat. No. TMX2-494H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human TMX2, transcript variant 1, fused with His tag at N-terminal was expressed in E. coli.
Species	Human
Source	E.coli
Description	This gene encodes a member of the disulfide isomerase (PDI) family of endoplasmic reticulum (ER) proteins that catalyze protein folding and thiol-disulfide interchange reactions. The encoded protein has an N-terminal ER-signal sequence, a catalytically active thioredoxin domain, one transmembrane domain and a C-terminal ER-retention sequence. This protein is enriched on the mitochondria-associated-membrane of the ER via palmitoylation of two of its cytosolically exposed cysteines.
Form	Lyophilized from a 0.2 M filtered solution of 20mM Tris, 150mM NaCl, pH8.0
Molecular Mass	21.9kD
AA Sequence	MGSSHHHHHHSSGLVPRGSHMTCKPPLYMGPEYIKYFNDKTIDEELERDKRVTWIV EFFANWSNDCQSFAPYADLSLKYNCTGLNFGKVDVGRYTDVSTRYKVSTSPLTKQ LPTLILFQGGKEAMRRPQIDKKGRAVSWTFSEENVIREFNLNELYQRAKKLSKAGDNI PEEQPVASTPTTVSDGENKKDK
Endotoxin	Endotoxin level is <0.1 ng/g of protein (<1EU/g).

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Purity	>95% as determined by SDS-PAGE and Coomassie blue staining
Concentration	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 1X PBS. Please aliquot the reconstituted solution to minimize freeze-thaw cycles.
GENE INFORMATION	
Gene Name	TMX2 thioredoxin-related transmembrane protein 2 [Homo sapiens]
Official Symbol	TMX2
Synonyms	PIG26; CGI-31; PDIA12; TXNDC14
Gene ID	51075
mRNA Refseq	NM_015959.3
Protein Refseq	NP_057043.1
UniProt ID	Q9Y320