

Recombinant Human TMX1 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. TMX1-4044H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	TMX1 MS Standard C13 and N15-labeled recombinant protein (NP_110382) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
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, and one transmembrane domain. Unlike most members of this gene family, it lacks a C-terminal ER-retention sequence. The mature membrane-bound protein can both oxidize and reduce disulfide bonds and acts selectively on membrane-associated polypeptides.
Molecular Mass	31.8 kDa
AA Sequence	MAPSGSLAVPLAVMVPLLWGAPWTHGRRSNVRVITDENWRELLEGDWMIEFYAPW CPACQNLQPEWESFAEWGEDLEVNIKVDVTEQPGLSGRFIINALPTIYHCKDGEFR RYQGPRTKKDFINFISDKWKSIPEVSSWFGPGSVLMSSMSALFQLSMWIRTCHNY FIEDLGLPVWGSYTVFALATLFSGLLLGLCMIFVADCLCPSKRRRPQYPYPSKKLLS ESAQPLKKVEEEQEADEEDVSEEEAESKEGTNKDFPQNAIRQPSLGPSLATDKSTR TRPLEQKLISEEDLAANDILDYKDDDDKV

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Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Stability	Stable for 3 months from receipt of products under proper storage and handling conditions.
Storage	Store at -80 centigrade. Avoid repeated freeze-thaw cycles.
Concentration	50 µg/mL as determined by BCA
Storage Buffer	100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

Gene Name	TMX1 thioredoxin-related transmembrane protein 1 [Homo sapiens (human)]
Official Symbol	TMX1
Synonyms	TMX1; thioredoxin-related transmembrane protein 1; thioredoxin domain containing, thioredoxin domain containing 1, thioredoxin domain containing, TXNDC, TXNDC1; PDIA11; protein disulfide isomerase family A; member 11; thioredoxin related transmembrane protein; TMX; thioredoxin domain containing 1; transmembrane Trx-related protein; thioredoxin domain-containing protein 1; protein disulfide isomerase family A, member 11; TXNDC; TXNDC1; DKFZp564E1962;
Gene ID	81542
mRNA Refseq	NM_030755
Protein Refseq	NP_110382
MIM	610527

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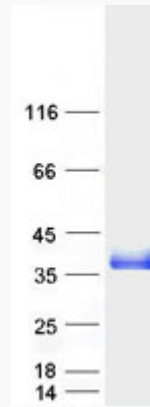
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UniProt ID

Q9H3N1

SDS-PAGE



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