



Recombinant Human Thioredoxin-related transmembrane protein 2 (TMX2), partial

Product Code	CSB-EP023951HU
Abbreviation	Recombinant Human TMX2 protein, partial
Storage	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.
Uniprot No.	Q9Y320
Alias	Cell proliferation-inducing gene 26 protein Thioredoxin domain-containing protein 14
Product Type	Recombinant Protein
Immunogen Species	Homo sapiens (Human)
Purity	Greater than 90% as determined by SDS-PAGE.
Sequence	LPTQREDGNPCDFDWREVEILMFLSAIVMMKNRRSITVEQHIGNIFMFSKVANT
Research Area	Cell Biology
Source	E.coli
Target Names	TMX2
Expression Region	49-102aa
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	N-terminal GST-tagged
Mol. Weight	33.3kDa
Protein Length	Extracellular Domain

Image



(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.

Description

Amino acids 49-102 form the expressed segment for recombinant Human



TMX2. The calculated molecular weight for this TMX2 protein is 33.3 kDa. The TMX2 protein was expressed in e.coli. The TMX2 coding gene included the N-terminal GST tag, which simplifies the detection and purification processes of the recombinant TMX2 protein in following stages of expression and purification.

Thioredoxin-related transmembrane protein 2 (TMX2) is a member of the thioredoxin superfamily, playing a role in redox regulation within the endoplasmic reticulum (ER). TMX2 contains a thioredoxin-like domain and multiple transmembrane helices, suggesting its association with the ER membrane. As part of the ER redox system, TMX2 is involved in maintaining protein folding and quality control by participating in disulfide bond formation and reduction. It may interact with other ER-resident proteins and contribute to the regulation of cellular responses to oxidative stress. Research on TMX2 spans various areas, including investigations into its specific redox functions, potential interactions with client proteins, and implications in cellular processes related to ER homeostasis.

Reconstitution

We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.

Shelf Life

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