TXNDC12 Protein, Human (HEK293, His)

Cat. No.:	HY-P71046
Synonyms:	Thioredoxin Domain-Containing Protein 12; Endoplasmic Reticulum Resident Protein 18; ER Protein 18; ERp18; Endoplasmic Reticulum Resident Protein 19; ER Protein 19; ERp19; Thioredoxin-Like Protein p19; hTLP19; TXNDC12; TLP19
Species:	Human
Source:	HEK293
Accession:	O95881 (H27-L168)
Gene ID:	51060
Molecular Weight:	Approximately 18.0 kDa

PROPERTIES

AA Sequence	H N G L G K G F G D H I H W R T L E D G K K E A A A S G L P L M V I I H K S W C G A C K A L K P K F A E S T E I S E L S H N F V M V N L E D E E E P K D E D F S P D G G Y I P R I L F L D P S G K V H P E I I N E N G N P S Y K Y F Y V S A E Q V V Q G M K E A Q E R L T G D A F R K K H L
Appearance	Solution.
Formulation	Supplied as a 0.2 μm filtered solution of 20 mM PB, 150 mM NaCl, 10% Glycerol, pH 7.4.
Endotoxin Level	<1 EU/μg, determined by LAL method.
Reconsititution	N/A
Storage & Stability	Stored at -80°C for 1 year. It is stable at -20°C for 3 months after opening. It is recommended to freeze aliquots at -80°C for extended storage. Avoid repeated freeze-thaw cycles.
Shipping	Shipping with dry ice.

DESCRIPTION

Background	TXNDC12 protein, a crucial protein-disulfide reductase localized in the endoplasmic reticulum, plays a pivotal role in promoting the formation of disulfide bonds in client proteins by virtue of its thiol-disulfide oxidase activity. As an essential component of the cellular machinery, TXNDC12 contributes to the intricate processes of protein folding and maturation within the endoplasmic reticulum. Its catalytic function in facilitating disulfide bond formation underscores its significance in maintaining proper protein structure and function, reflecting its central role in cellular homeostasis and the quality control mechanisms of protein processing in the endoplasmic reticulum.

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

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