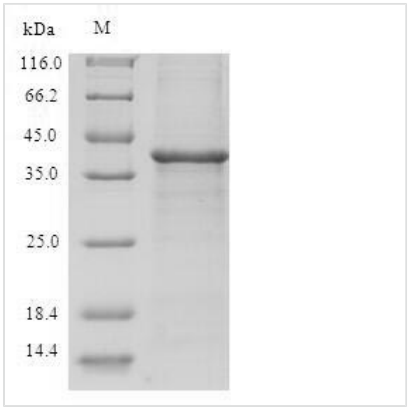
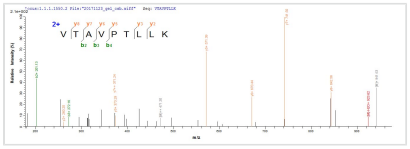
Recombinant Human Thioredoxin domain-containing protein 17 (TXNDC17)

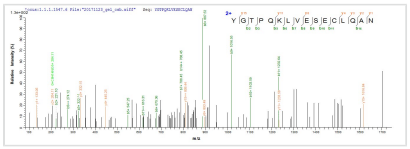
Product Code	CSB-EP025376HU
Relevance	Disulfide reductase. May participate in various redox reactions through the reversible oxidation of its active center dithiol to a disulfide and catalyze dithiol-disulfide exchange reactions. Modulates TNF-alpha signaling and NF-kappa-B activation. Has peroxidase activity and may contribute to the elimination of cellular hydrogen peroxide.
Abbreviation	Recombinant Human TXNDC17 protein
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.	Q9BRA2
Alias	14 kDa thioredoxin-related protein ;TRP14Protein 42-9-9Thioredoxin-like protein 5
Product Type	Recombinant Protein
Immunogen Species	Homo sapiens (Human)
Purity	Greater than 90% as determined by SDS-PAGE.
Sequence	MARYEEVSVSGFEEFHRAVEQHNGKTIFAYFTGSKDAGGKSWCPDCVQAEP VVREGLKHISEGCVFIYCQVGEKPYWKDPNNDFRKNLKVTAVPTLLKYGTPQK LVESECLQANLVEMLFSED
Research Area	Signal Transduction
Source	E.coli
Target Names	TXNDC17
Expression Region	1-123aa
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	40.9kDa
Protein Length	Full Length
Image	



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



Based on the SEQUEST from database of E.coli host and target protein, the LC-MS/MS Analysis result of CSB-EP025376HU could indicate that this peptide derived from E.coli-expressed Homo sapiens (Human) TXNDC17.



Based on the SEQUEST from database of E.coli host and target protein, the LC-MS/MS Analysis result of CSB-EP025376HU could indicate that this peptide derived from E.coli-expressed Homo sapiens (Human) TXNDC17.

Description

The recombinant Human TXNDC17 was expressed with the amino acid range of 1-123. This TXNDC17 protein is theoretically predicted to have a molecular weight of 40.9 kDa. The TXNDC17 protein was expressed in e.coli. The N-terminal GST tag was smoothly integrated into the coding gene of TXNDC17, which enables a simple process of detecting and purifying the TXNDC17 recombinant protein in the following steps.

Thioredoxin domain-containing protein 17 (TXNDC17), also known as TRP14, is a highly conserved and ubiquitously expressed oxidoreductase. It is involved in maintaining cellular redox homeostasis via a thiol-disulfide reductase activity. TXNDC17 is primarily localized to the endoplasmic reticulum (ER), where it participates in disulfide bond formation and is involved in the folding of newly synthesized proteins. Redox regulation within the ER is essential for the proper maturation of proteins that undergo post-translational modifications, including disulfide bond formation, before being transported to their final destinations within or outside the cell.

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

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.