Recombinant TMCC3 protein (His tag)

Catalog Number	549125
Species	Human
Expression System	E. coli
Accession	Q9ULS5
Molecular Weight	Predictes a molecular mass of 17.28 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 20 kDa band.

Product Information

Sequence Region	284-416
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>85%, by SDS-PAGE with Coomassie Brilliant Blue staining.
Endotoxin	Not tested.
Activity	Not tested.
Stability	Samples are stable for up to twelve months from date of receipt at -70℃
Protein Construction	DNA encoding 284-416 aa (Q9ULS5) were fused with 6His tag.

Storage & Handling

Reconstitution	Reconstitute at 0.25 μg/μl in sterile water for short-term storage. Reconstitution with 50% glycerol solution is recommended for longer term storage (see Stability and Storage for more details). If a different concentration is needed for your purposes please adjust the reconstitution volume as required (please note: the ion concentration of the final solution will vary according to the volume used). Note: Centrifuge vial before opening. When reconstituting, gently pipet and wash down the sides of the vial to ensure full recovery of the protein into solution.
Storage	Store it under sterile conditions at -20℃ to -80℃. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.
Shipping	In general, recombinant proteins are provided as lyophilized powder which are shipped at ambient temperature. Bulk packages of recombinant proteins are provided as frozen liquid. They are shipped out with blue ice unless customers require otherwise.

Description

Description	Recombinant Human TMCC3 Protein Fragment (aa 284-416) is a high-purity, soluble protein designed for structural and biochemical studies. This fragment of Transmembrane and coiled-coil domain protein 3 (TMCC3) was computationally selected to ensure stability and solubility, making it an ideal tool for investigating endoplasmic reticulum-associated mechanisms. Transmembrane and coiled-coil domain protein 3 (TMCC3) is a multi-pass membrane protein localized to the endoplasmic reticulum (ER) membrane, where it concentrates in discrete patches along peripheral ER tubules. While a detailed functional summary is not provided, its ER membrane association suggests potential roles in ER organization, protein trafficking, or membrane dynamics, as indicated by subcellular localization data from UniProt (accession: Q9ULS5). The recombinant fragment (residues 284-416) represents a stable, soluble region optimized for experimental applications, enabling researchers to explore TMCC3's biochemical properties without the challenges of full-length membrane protein expression.