Recombinant TMC3 protein (His tag)

Catalog Number	550164
Species	Human
Expression System	E. coli
Accession	Q7Z5M5
Molecular Weight	Predictes a molecular mass of 9.89 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 10 kDa band.

Product Information

Sequence Region	247-319
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 247-319 aa (Q7Z5M5) 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	Introducing the Recombinant Human Transmembrane Channel-like Protein 3 (TMC3) Fragment (residues 247-319), a high-quality protein product designed for structural and biochemical research. This 73-amino acid fragment, derived from the TMC3 gene, represents a stable and soluble unit ideal for investigating the molecular mechanisms of this probable ion channel component. Transmembrane channel-like protein 3 (TMC3) is a multi-pass membrane protein localized to cellular membranes in humans. While its precise molecular function remains to be fully characterized, current evidence indicates it likely functions as a component of an ion channel. This fragment (residues 247-319) was computationally selected based on structural predictions to provide researchers with a stable, soluble protein unit suitable for advancing our understanding of TMC3's structure-function relationships and potential channel properties.