Recombinant TM232 protein (His tag)

Catalog Number	550589
Species	Human
Expression System	E. coli
Accession	C9JQI7
Molecular Weight	Predictes a molecular mass of 20.52 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 21 kDa band.

Product Information

Sequence Region	189-352
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 189-352 aa (C9JQI7) 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 Protein 232 (TMEM232) Fragment (residues 189-352), a high-quality protein designed for investigating male fertility mechanisms. This 164-amino acid fragment offers a stable and soluble unit ideal for structural and biochemical studies, enabling researchers to explore sperm motility and axoneme integrity with precision. Transmembrane Protein 232 (TMEM232) is a multi-pass membrane protein localized to the membrane in Homo sapiens. It plays a critical role in male fertility by regulating sperm cytoplasm removal and maintaining axoneme integrity, which are essential for proper sperm motility. This function, as supported by UniProtKB evidence (ECO:0000250|UniProtKB:Q5K6N0), underscores its importance in reproductive biology and potential implications for infertility research.