# Recombinant TMC5 protein (His tag)

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| **Catalog Number** | 550662 |
| **Species** | Human |
| **Expression System** | E. coli |
| **Accession** | Q6UXY8 |
| **Molecular Weight** | Predictes a molecular mass of 15.18 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 15 kDa band. |

## Product Information

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| **Sequence Region** | 344-458 |
| **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 344-458 aa (Q6UXY8) were fused with 6His tag. |

## Storage & Handling

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| **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.<br>Bulk packages of recombinant proteins are provided as frozen liquid. They are shipped out with blue ice unless customers require otherwise. |

## Description

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| **Description** | This recombinant protein product features a 115-amino acid fragment (residues 344-458) of the human Transmembrane channel-like protein 5 (TMC5). This fragment has been computationally selected for its stability and solubility, making it an ideal tool for structural studies and biochemical characterization of this putative ion channel component.<br>Transmembrane channel-like protein 5, encoded by the TMC5 gene in Homo sapiens, is a probable component of an ion channel, though its precise molecular function remains to be fully characterized. The protein is localized to the membrane and is predicted to be a multi-pass membrane protein, suggesting its involvement in transmembrane transport processes. The selected fragment represents a stable, soluble region suitable for experimental analysis, aiding in the functional elucidation of this protein. |