Recombinant T178B protein (His tag)

Catalog Number	551801
Species	Human
Expression System	E. coli
Accession	H3BS89
Molecular Weight	Predictes a molecular mass of 10.33 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 10 kDa band.

Product Information

Sequence Region	100-171
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>86%, 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 100-171 aa (H3BS89) 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	This high-quality recombinant protein product features a soluble fragment (residues 100-171) of human Transmembrane protein 178B (TMEM178B). The 72-amino acid fragment has been computationally designed for optimal stability and solubility, making it an ideal reagent for structural studies, antibody development, and functional characterization of this multi-pass membrane protein. Transmembrane protein 178B (TMEM178B) is a human protein encoded by the TMEM178B gene (UniProt ID: H3BS89). The full-length protein is localized to the cellular membrane and is characterized as a multi-pass membrane protein. While specific functional details are still under investigation, its membrane association suggests potential roles in cellular signaling, transport, or structural organization. The provided fragment represents a stable, soluble region selected through structural prediction to facilitate experimental analysis of this membrane-associated protein.