Recombinant TM192 protein (His tag)

Catalog Number	538453
Species	Human
Expression System	E. coli
Accession	Q8IY95
Molecular Weight	Predictes a molecular mass of 10.69 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 11 kDa band.

Product Information

Sequence Region	193-271
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>87%, 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 193-271 aa (Q8IY95) 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 Transmembrane protein 192 (TMEM192) fragment (residues 193-271) is a high-quality, soluble protein unit designed for structural and biochemical studies. This 79-amino acid fragment was computationally optimized for stability, enabling reliable investigation of lysosomal and endosomal membrane protein mechanisms. Transmembrane protein 192 (TMEM192) is a multi-pass membrane protein localized to the lysosome membrane and late endosomes, as supported by experimental evidence (PubMed:17897319, PubMed:20370317). Its presence in these key organelles suggests involvement in intracellular trafficking, lysosomal function, or endosomal maturation processes, though specific functional details remain to be fully characterized. The selected fragment represents a stable, soluble region suitable for elucidating structural features of this membrane-associated protein.