Recombinant TM11F protein (His tag)

Catalog Number	549805
Synonyms	Airway trypsin-like protease 4
Species	Human
Expression System	E. coli
Accession	Q6ZWK6
Molecular Weight	Predictes a molecular mass of 45.02 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 45 kDa band.

Product Information

Sequence Region	54-438
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 54-438 aa (Q6ZWK6) 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 Protease Serine 11F (TMPRSS11F) Fragment (residues 54-438) is a high-purity protein designed for functional studies. This 385-amino acid fragment fully encompasses the SEA and Peptidase S1 domains, making it an ideal tool for investigating serine protease activity and domain-specific interactions in respiratory and membrane biology research. Transmembrane Protease Serine 11F (TMPRSS11F), also known as Airway Trypsin-like Protease 4, is a probable serine protease encoded by the TMPRSS11F gene in humans. As a single-pass type II membrane protein, it is localized to cellular membranes where it likely participates in proteolytic processing events. This protein belongs to the serine protease family (EC 3.4.21.-) and may play important roles in airway physiology and cellular signaling pathways through its proteolytic activity.