Recombinant TM11B protein (His tag)

Catalog Number	547618
Synonyms	Airway trypsin-like protease 5
Species	Human
Expression System	E. coli
Accession	Q86T26
Molecular Weight	Predictes a molecular mass of 43.71 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 44 kDa band.

Product Information

Sequence Region	39-416
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>90%, 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 39-416 aa (Q86T26) 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 11B (TMPRSS11B) Fragment (residues 39-416) is a high-purity protein that includes the complete SEA and Peptidase S1 domains. This fragment is specifically engineered to support functional studies of these critical domains, making it an invaluable tool for protease research and drug discovery. Transmembrane protease serine 11B (TMPRSS11B), also known as Airway trypsin-like protease 5, is a serine protease enzyme that plays important biological roles. The full-length protein is localized to the cell membrane as a single-pass type II membrane protein, positioning it for potential roles in extracellular signaling and substrate processing. This membrane association suggests involvement in cell surface proteolytic events, though specific physiological substrates and functions require further investigation according to current scientific literature.