Recombinant PRS41 protein (His tag)

Catalog Number	549808
Synonyms	Testis serine protease 1; TESSP-1
Species	Human
Expression System	E. coli
Accession	Q7RTY9
Molecular Weight	Predictes a molecular mass of 29.36 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 29 kDa band.

Product Information

Sequence Region	55-299
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 55-299 aa (Q7RTY9) 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 Serine Protease 41 (PRSS41) Fragment (aa 55-299) is a high-purity protein designed to encompass the complete Peptidase S1 domain. This fragment serves as an essential tool for investigating protease activity, domain-specific functions, and cellular mechanisms in reproductive biology and membrane-associated processes. Serine Protease 41 (PRSS41), also known as Testis Serine Protease 1 (TESSP-1), is a membrane-anchored enzyme localized to the plasma membrane in spermatogonia and to intracellular compartments, likely the Golgi apparatus, in spermatocytes. As a serine protease, it is implicated in proteolytic processes critical for cellular functions, particularly in the testis. The protein's GPI-anchor mediates its association with the cell membrane, suggesting roles in signaling or extracellular matrix remodeling. This recombinant fragment enables focused studies on the catalytic and functional properties of its conserved Peptidase S1 domain.