Recombinant PRS47 protein (His tag)

Catalog Number	550041
Synonyms	Serine protease 47, pseudogene
Species	Human
Expression System	E. coli
Accession	A8MTI9
Molecular Weight	Predictes a molecular mass of 20.22 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 20 kDa band.

Product Information

Sequence Region	67-232
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 67-232 aa (A8MTI9) 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 Putative Serine Protease 47 (PRSS47P) Fragment (residues 67-232) is a high-purity, stable protein designed for structural and biochemical research. This 166-amino acid fragment was computationally optimized for solubility and stability, enabling reliable use in protease activity assays and molecular interaction studies. The full-length Putative Serine Protease 47 (EC 3.4.21.-) is a serine protease pseudogene in humans, classified under the serine protease family. According to UniProt entry A8MTI9, it is localized to the secretory pathway (Secreted), suggesting potential extracellular roles. While detailed functional data is not fully characterized, its classification implies possible involvement in proteolytic processes. The selected fragment (67-232) represents a structurally stable region suitable for investigating protease-like properties without domain limitations.