Recombinant RNS10 protein (His tag)

Catalog Number	548971
Species	Human
Expression System	E. coli
Accession	Q5GAN6
Molecular Weight	Predictes a molecular mass of 13.11 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 13 kDa band.

Product Information

Sequence Region	115-216
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>89%, 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 115-216 aa (Q5GAN6) 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 Inactive Ribonuclease-like Protein 10 (RNASE10) Fragment (aa 115-216) is a high-purity, stable protein fragment designed for structural and functional studies. This 102-amino acid soluble unit retains key features of the full-length protein, supporting research in sperm maturation, male fertility, and reproductive biology. The full-length Inactive Ribonuclease-like Protein 10, encoded by the RNASE10 gene in Homo sapiens, is a secreted proximal epididymal protein essential for post-testicular sperm maturation and male fertility. It plays a critical role in sperm function, potentially mediating sperm adhesion to the egg zona pellucida during fertilization. Notably, despite its ribonuclease-like structure, the protein lacks ribonuclease activity. As a secreted protein, it functions extracellularly in the epididymal environment, contributing to sperm maturation processes. This recombinant fragment provides a valuable tool for investigating these mechanisms without enzymatic interference.