Recombinant CPMD8 protein (His tag)

Catalog Number	547707
Species	Human
Expression System	E. coli
Accession	Q8IZJ3
Molecular Weight	Predictes a molecular mass of 54.05 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 54 kDa band.

Product Information

Sequence Region	33-503
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>85%, 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 33-503 aa (Q8IZJ3) 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 C3 and PZP-like alpha-2-macroglobulin domain-containing protein 8 (CPAMD8) fragment (residues 33-503) is a high-quality, soluble protein designed for structural and biochemical studies. This 471-amino acid fragment was computationally optimized for stability and solubility, making it an ideal tool for investigating protein function and interactions. The full-length CPAMD8 protein (UniProt ID: Q8IZJ3) is a human protein with complex localization, being both secreted and peripherally associated with the cell membrane on the extracellular side. While specific functional details are not fully characterized, its association with alpha-2-macroglobulin domains suggests potential roles in proteinase inhibition and immune response regulation. The protein's dual localization indicates possible involvement in extracellular signaling pathways and cell surface interactions, making it an important target for further biological investigation.