Recombinant COMDA protein (His tag)

Catalog Number	533809
Synonyms	Protein Valette
Species	Drosophila melanogaster
Expression System	E. coli
Accession	Q9VYV9
Gene ID	32116
Molecular Weight	Predictes a molecular mass of 20.30 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 21 kDa band.

Product Information

Sequence Region	78-238
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 78-238 aa (Q9VYV9) 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 Drosophila melanogaster COMM domain-containing protein 10 homolog Vlet (Protein Valette) fragment (residues 78-238) is a high-purity protein preparation encompassing the complete COMM functional domain. This fragment serves as an essential research tool for investigating domain-specific functions in endosomal recycling, CRL complex modulation, and neuromuscular regulation. The full-length COMM domain-containing protein 10 homolog Vlet functions as a scaffold protein in the commander complex, which is critical for endosomal recycling of transmembrane cargos. It plays a role in modulating cullin-RING E3 ubiquitin ligase (CRL) complexes and may down-regulate NF-kappa-B activation. Evidence also suggests an accessory function in the survival motor neuron (SMN) complex, with the protein being required for proper neuromuscular function and organismal viability in Drosophila melanogaster.