Recombinant C2D2A protein (His tag)

Catalog Number	534941
Species	Drosophila melanogaster
Expression System	E. coli
Accession	A1ZAV1
Gene ID	36982
Molecular Weight	Predictes a molecular mass of 41.70 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 43 kDa band.

Product Information

Sequence Region	216-554
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 216-554 aa (A1ZAV1) 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 Coiled-coil and C2 domain-containing protein 2A (Cc2d2a) fragment (residues 216-554) is a highly stable and soluble protein unit ideal for structural biology and biochemical studies. This fragment represents a key region of the protein that facilitates research into ciliary structure and function. The full-length Coiled-coil and C2 domain-containing protein 2A (Cc2d2a) is a probable component of the tectonic-like complex (also known as the MKS complex), which localizes at the transition zone of primary cilia. This protein plays a critical role in maintaining ciliary structure and function, as supported by experimental evidence. It is primarily located in the cytoplasm at the cilium basal body, centrosome, and centriole, specifically concentrating at the transition zone region between the basal body and ciliary axoneme. The protein co-localizes with the tectonic-like complex, highlighting its importance in ciliary organization and cellular signaling pathways.