Recombinant MPND protein (His tag)

Catalog Number	535917
Species	Drosophila melanogaster
Expression System	E. coli
Accession	Q9VKJ1
Gene ID	34551
Molecular Weight	Predictes a molecular mass of 46.11 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 46 kDa band.

Product Information

Sequence Region	128-514
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>88%, 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 128-514 aa (Q9VKJ1) 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 MPN domain-containing protein CG4751 (EC 3.4.-.-) fragment (residues 128-514) from Drosophila melanogaster, encompassing the functional MPN domain (residues 284-420). This fragment is an ideal tool for investigating protease activity and domain-specific functions in biochemical and cellular studies. The full-length MPN domain-containing protein CG4751 is a probable protease, as indicated by functional annotations (ECO:0000250). Proteases play critical roles in protein processing, degradation, and regulatory pathways, making this protein significant for understanding proteolytic mechanisms in Drosophila melanogaster. The provided fragment focuses on the MPN domain, which is often associated with protease activity, enabling targeted studies of its enzymatic functions and contributions to biological processes.