Recombinant PP13 protein (His tag)

Catalog Number	534552
Species	Drosophila melanogaster
Expression System	E. coli
Accession	Q05547
Gene ID	48531
Molecular Weight	Predictes a molecular mass of 36.21 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 38 kDa band.

Product Information

Sequence Region	1-302
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>90%, 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 1-302 aa (Q05547) 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 Serine/threonine-protein phosphatase alpha-3 isoform (EC 3.1.3.16), corresponding to amino acids 1-302, is a high-purity fragment designed for structural and biochemical studies. This soluble and stable protein unit enables researchers to investigate phosphatase mechanisms with reliability and precision. The full-length Serine/threonine-protein phosphatase alpha-3 isoform, encoded by the Pp1-13C gene in Drosophila melanogaster, is classified under EC 3.1.3.16 and plays a critical role in dephosphorylation processes, regulating key cellular signaling pathways. As a serine/threonine phosphatase, it is essential for modulating protein activity and function in diverse biological contexts, though specific functional details and subcellular localization are not fully characterized in the provided data. This recombinant fragment supports ongoing research into its catalytic and regulatory properties.