Recombinant PHB1 protein (His tag)

Catalog Number	534983
Synonyms	Protein l(2)37Cc
Species	Drosophila melanogaster
Expression System	E. coli
Accession	P24156
Gene ID	49168
Molecular Weight	Predictes a molecular mass of 32.04 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 32 kDa band.

Product Information

Sequence Region	1-276
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>87%, 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 1-276 aa (P24156) 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	This recombinant protein is a fragment of Prohibitin 1 (Protein l(2)37Cc) from Drosophila melanogaster, encompassing amino acids 1-276. It is designed for structural and biochemical studies, offering a stable and soluble unit that retains key functional regions, making it ideal for investigating larval metabolism and developmental progression. Prohibitin 1, encoded by the Phb1 gene in Drosophila melanogaster, is essential for larval metabolism and the transition from larva to pupa, as supported by experimental evidence (PubMed:3092183). This protein plays a critical role in developmental processes, and the selected fragment (1-276) was computationally optimized to ensure stability and solubility, facilitating research into its molecular mechanisms without the need for full-length expression.