Recombinant PHP protein (His tag)

Catalog Number	532654
Species	Drosophila melanogaster
Expression System	E. coli
Accession	P39769
Gene ID	31181
Molecular Weight	Predictes a molecular mass of 10.58 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 11 kDa band.

Product Information

Sequence Region	1508-1589
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 1508-1589 aa (P39769) 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	Introducing the recombinant Polyhomeotic-proximal chromatin protein fragment (residues 1508–1589), a high-purity tool designed for studying the SAM domain's role in chromatin remodeling and transcriptional repression. This 82-amino acid fragment is ideal for researchers investigating Polycomb group mechanisms in Drosophila melanogaster. The full-length Polyhomeotic-proximal chromatin protein (ph-p) is a key Polycomb group (PcG) protein in Drosophila melanogaster that maintains the repressive state of homeotic genes during development. As a component of the PRC1 complex, it contributes to chromatin remodeling through monoubiquitination of histone H2A at 'Lys-118', ensuring heritable gene silencing. This nuclear protein regulates pair-rule genes like eve, ftz, and H, playing a critical role in epigenetic regulation and developmental biology.