Recombinant HPHP protein (His tag)

Catalog Number	534394
Species	Drosophila melanogaster
Expression System	E. coli
Accession	Q7JWP6
Gene ID	40047
Molecular Weight	Predictes a molecular mass of 11.53 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 12 kDa band.

Product Information

Sequence Region	1-85
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 1-85 aa (Q7JWP6) 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 HP1-HOAP-interacting protein (HipHop) fragment (residues 1-85) from Drosophila melanogaster, representing a stable and soluble unit ideal for structural and biochemical studies of telomere protection mechanisms. The full-length HP1-HOAP-interacting protein (HipHop) is a critical component of the HipHop-HOAP complex, which recruits the MTV complex to form the terminin telomere-capping complex. This complex binds to chromosome ends in a sequence-independent manner and functions to prevent telomere fusion, thereby maintaining genomic stability. HipHop localizes to the nucleus and specifically associates with chromosome telomeres, where it colocalizes with cav/HOAP at both polytene and mitotic chromosome ends. Its telomere localization is enhanced by tefu/ATM and the MRN complex activity, but does not depend on MTV complex components moi/modigliani, tea, or ver/verrocchio, highlighting its essential role in telomere protection pathways.