Recombinant TEA protein (His tag)

Catalog Number	534693
Species	Drosophila melanogaster
Expression System	E. coli
Accession	E1JH25
Gene ID	36027
Molecular Weight	Predictes a molecular mass of 27.02 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 28 kDa band.

Product Information

Sequence Region	529-741
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>85%, 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 529-741 aa (E1JH25) 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 Protein telomere ends associated (tea) fragment (529-741) from Drosophila melanogaster, a stable and soluble unit ideal for investigating telomere maintenance mechanisms and DNA protection functions in structural and biochemical studies. Protein telomere ends associated (tea) is a crucial component of the MTV complex, which associates with the HipHop-HOAP complex to form the terminin telomere-capping complex. This complex plays a vital role in telomere maintenance by preventing telomere fusion and protecting single-stranded DNA from degradation in a sequence-independent manner. The protein localizes to the nucleus, specifically at chromosome telomeres, with its telomeric localization dependent on cav/HOAP. Its function in recruiting the MTV complex to telomeres through interactions with HipHop-HOAP components underscores its significance in genomic stability research.