Recombinant CCCP protein (His tag)

Catalog Number	534722
Species	Drosophila melanogaster
Expression System	E. coli
Accession	O76879
Gene ID	31252
Molecular Weight	Predictes a molecular mass of 28.08 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 29 kDa band.

Product Information

Sequence Region	26-260
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>88%, 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 26-260 aa (O76879) 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 Circadian clock-controlled protein daywake (Drosophila melanogaster) fragment (residues 26-260) is a high-quality, stable protein designed for circadian rhythm and sleep behavior research. This fragment provides a soluble and functional unit ideal for structural, biochemical, and functional studies. The full-length Circadian clock-controlled protein daywake, encoded by the dyw gene in Drosophila melanogaster, is a component of the circadian clock or a downstream effector of clock function. It plays a critical role in regulating daytime sleep behavior in response to environmental temperatures, suppressing daytime sleep (siesta) under cooler conditions to extend activity periods and minimize heat exposure risks. This protein is part of a heat avoidance mechanism, highlighting its importance in behavioral adaptation. The provided fragment (residues 26-260) encompasses the functional domain, enabling detailed investigation into its molecular mechanisms.