Recombinant ONEC protein (His tag)

Catalog Number	534875
Species	Drosophila melanogaster
Expression System	E. coli
Accession	Q9NJB5
Gene ID	45816
Molecular Weight	Predictes a molecular mass of 10.57 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 11 kDa band.

Product Information

Sequence Region	759-833
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>86%, 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 759-833 aa (Q9NJB5) 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 Homeobox protein onecut fragment (residues 759-833) from Drosophila melanogaster, designed for structural and biochemical studies. This 75-amino acid fragment represents a stable, soluble unit of the transcriptional regulator, ideal for investigating DNA-binding mechanisms at ATTG recognition sites. Homeobox protein onecut is a transcriptional regulator that binds and recognizes ATTG DNA sites, playing a key role in gene expression regulation. As a nuclear protein, it functions within the nucleus to control developmental and cellular processes. The selected fragment (759-833) was computationally optimized for stability and solubility, enabling detailed analysis of its regulatory properties without domain inclusions, supporting research into its molecular interactions and functional studies.