Recombinant FD3 protein (His tag)

Catalog Number	534781
Species	Drosophila melanogaster
Expression System	E. coli
Accession	Q02361
Gene ID	37631
Molecular Weight	Predictes a molecular mass of 13.61 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 14 kDa band.

Product Information

Sequence Region	83-184
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 83-184 aa (Q02361) 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 Fork head domain-containing protein FD3 (Fragment 83-184) is a high-quality, stable protein fragment derived from Drosophila melanogaster, designed for structural and biochemical studies. This 102-amino acid fragment represents a soluble unit of the protein, ideal for investigating developmental mechanisms during embryogenesis. The full-length Fork head domain-containing protein FD3, encoded by the fd59A gene, plays a critical role in embryonic development, as supported by experimental evidence (PubMed:1356269). It is localized to the nucleus, indicating its involvement in nuclear processes such as gene regulation. The selected fragment (residues 83-184) was computationally optimized for stability and solubility, enabling researchers to explore protein function without the complexities of the full-length protein, thereby facilitating detailed structural and mechanistic analyses.