Recombinant RUVB2 protein (His tag)

Catalog Number	531792
Synonyms	Dreptin; Drep; Reptin
Species	Drosophila melanogaster
Expression System	E. coli
Accession	Q9V3K3
Gene ID	40092
Molecular Weight	Predictes a molecular mass of 51.82 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 56 kDa band.

Product Information

Sequence Region	1-448
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>87%, 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 1-448 aa (Q9V3K3) 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 Drosophila melanogaster RuvB-like helicase 2 (Reptin) fragment (residues 1-448) is a high-purity protein designed for structural and biochemical studies. This fragment represents a stable, soluble unit ideal for investigating its roles in Wnt signaling, transcriptional coactivation, and chromatin remodeling processes. RuvB-like helicase 2 (Reptin) functions as a transcriptional coactivator in Wg signaling pathways and antagonistically regulates arm signaling activity. It serves as an essential cofactor for Myc function, playing critical roles in cellular proliferation and growth. Additionally, Reptin is proposed as a core component of the chromatin remodeling Ino80 complex involved in transcriptional regulation, DNA replication, and DNA repair. The protein is localized to the nucleus, consistent with its regulatory functions in gene expression and chromatin dynamics.