Recombinant EXD2 protein (His tag)

Catalog Number	531277
Synonyms	dEXD2
Species	Drosophila melanogaster
Expression System	E. coli
Accession	Q9VGN7
Gene ID	41374
Molecular Weight	Predictes a molecular mass of 27.99 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 28 kDa band.

Product Information

Sequence Region	30-257
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 30-257 aa (Q9VGN7) 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	This product is a recombinant fragment of the Drosophila melanogaster Exonuclease 3'-5' domain-containing protein 2 (dEXD2), encompassing amino acids 30-257 and including the complete 3'-5' exonuclease domain. It serves as a specialized tool for investigating the enzymatic activity and functional mechanisms of this key mitochondrial protein. The full-length Exonuclease 3'-5' domain-containing protein 2 (dEXD2) is a 3'-5' exoribonuclease essential for mitochondrial metabolism, as supported by scientific literature. It is localized to the mitochondrion membrane, where it performs critical RNA processing functions. This protein plays a fundamental role in maintaining mitochondrial function and energy production, making it significant for studies in cellular metabolism and mitochondrial biology.