Recombinant PDIP3 protein (His tag)

Catalog Number	541186
Synonyms	46 kDa DNA polymerase delta interaction protein; p46; S6K1 Aly/REF-like target; SKAR
Species	Human
Expression System	E. coli
Accession	Q9BY77
Molecular Weight	Predictes a molecular mass of 10.51 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 11 kDa band.

Product Information

Sequence Region	278-356
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>89%, 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 278-356 aa (Q9BY77) 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 high-quality recombinant protein fragment of Human Polymerase delta-interacting protein 3 (POLDIP3), encompassing amino acids 278-356. This 79-amino acid fragment is expertly designed to include the complete RNA Recognition Motif (RRM) domain, making it an ideal reagent for investigating the specific molecular functions of this domain in mRNA translation and processing. The full-length Polymerase delta-interacting protein 3 (POLDIP3), also known as SKAR, is a crucial regulator of translation in human cells. It preferentially associates with cap-binding complex (CBC)-bound spliced mRNA-protein complexes during the pioneer round of mRNA translation, contributing to enhanced translational efficiency of spliced mRNAs over nonspliced mRNAs. POLDIP3 recruits activated ribosomal protein S6 kinase beta-1 (RPS6KB1) to newly synthesized mRNA and is involved in nuclear mRNA export, likely through its association with the TREX complex. As a nucleocytoplasmic shuttling protein, POLDIP3 localizes to the nucleus, nuclear speckles, and cytoplasm, reflecting its dynamic role in mRNA metabolism from processing to translation.