Recombinant POPD3 protein (His tag)

Catalog Number	549653
Synonyms	Popeye protein 3
Species	Human
Expression System	E. coli
Accession	Q9HBV1
Molecular Weight	Predictes a molecular mass of 20.62 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 21 kDa band.

Product Information

Sequence Region	100-261
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 100-261 aa (Q9HBV1) 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 Human Popeye domain-containing protein 3 (POPDC3) fragment (residues 100-261) is a high-quality, stable protein designed for structural and biochemical studies. This 162-amino acid fragment, computationally optimized for solubility and stability, supports research into cardiac function and cAMP-mediated signaling pathways. Popeye domain-containing protein 3 (POPDC3), encoded by the gene POPDC3, is a multi-pass membrane protein localized to the membrane in human cells. It plays a critical role in maintaining heart function, partly through cAMP-binding activity, and is involved in regulating KCNK2/TREK-1-mediated current amplitude, as evidenced by studies (PubMed:31610034, PubMed:10882522). This protein's function underscores its importance in cardiovascular physiology and ion channel modulation.