Recombinant PDPK2 protein (His tag)

Catalog Number	548983
Synonyms	3-phosphoinositide-dependent protein kinase 2 pseudogene
Species	Human
Expression System	E. coli
Accession	Q6A1A2
Molecular Weight	Predictes a molecular mass of 34.82 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 36 kDa band.

Product Information

Sequence Region	48-334
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 48-334 aa (Q6A1A2) 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 Putative 3-phosphoinositide-dependent protein kinase 2 (PDPK2P) fragment (residues 48-334) is a high-purity protein designed for studying kinase activity and domain-specific functions. This 287-amino acid fragment fully encompasses the protein kinase domain, making it an ideal reagent for signaling pathway research and functional assays. The full-length Putative 3-phosphoinositide-dependent protein kinase 2 (EC 2.7.11.1) functions as a key regulatory kinase that phosphorylates and activates multiple important signaling proteins including PKB/AKT, PKA, PKC-zeta, RPS6KA1, and RPS6KB1. Based on sequence similarity, it may play a general role in signaling processes and development. The protein localizes to both the cytoplasm and membrane, functioning as a peripheral membrane protein, suggesting its involvement in membrane-associated signaling cascades. This recombinant fragment provides researchers with a targeted tool to investigate the specific functions of the protein kinase domain without interference from other regulatory regions.