Recombinant PLHD1 protein (His tag)

Catalog Number	536289
Synonyms	PH domain-containing family D member 1
Species	Caenorhabditis elegans
Expression System	E. coli
Accession	O45420
Gene ID	180373
Molecular Weight	Predictes a molecular mass of 48.54 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 55 kDa band.

Product Information

Sequence Region	83-481
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 83-481 aa (O45420) 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 Pleckstrin homology domain-containing family D member 1 fragment (residues 83-481) from Caenorhabditis elegans, specifically engineered to encompass the complete PH domain (residues 83-192). This purified protein fragment serves as an essential tool for investigating the structural and functional properties of the PH domain in cellular signaling pathways. Pleckstrin homology domain-containing family D member 1 (UniProt ID: O45420) is a protein from Caenorhabditis elegans that contains a pleckstrin homology (PH) domain. PH domains are protein modules of approximately 100-120 amino acids that play crucial roles in intracellular signaling by binding to phosphoinositide lipids and facilitating protein-membrane interactions. These domains are involved in recruiting proteins to cellular membranes and regulating various signaling pathways. The presence of the PH domain suggests this protein may participate in membrane-associated signaling processes, though specific functional details and subcellular localization for the full-length protein are not fully characterized.