Recombinant PKHF2 protein (His tag)

Catalog Number	538980
Synonyms	PH domain-containing family F member 2; Endoplasmic reticulum-associated apoptosis-involved protein containing PH and FYVE domains; EAPF; PH and FYVE domain-containing protein 2; Phafin-2; Phafin2; Zinc finger FYVE domain-containing protein 18
Species	Human
Expression System	E. coli
Accession	Q9H8W4
Molecular Weight	Predictes a molecular mass of 25.76 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 26 kDa band.

Product Information

Sequence Region	1-215
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>90%, 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 1-215 aa (Q9H8W4) 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 PLEKHF2 (PH Domain Fragment) - A high-purity protein fragment encompassing amino acids 1-215 of Pleckstrin homology domain-containing family F member 2, specifically designed to study the functional PH domain (residues 35-131) involved in endosomal membrane fusion and apoptosis regulation. The full-length PLEKHF2 protein, also known as Phafin-2, plays a critical role in early endosome fusion upstream of RAB5, thereby regulating receptor trafficking and fluid-phase transport. This protein enhances cellular sensitivity to TNF-induced apoptosis and localizes to early endosome membranes as a peripheral membrane protein, where it colocalizes with EEA1 and RAB5 at endosomal membrane fusion hot spots. Additionally, PLEKHF2 associates with the endoplasmic reticulum and may translocate to this organelle during the early phase of apoptosis. The PH domain-containing fragment provided in this product represents the key functional region responsible for membrane interactions and signaling functions.