Recombinant PLD3A protein (His tag)

Catalog Number	549341
Synonyms	Protein slowmo homolog 1
Species	Human
Expression System	E. coli
Accession	Q96N28
Molecular Weight	Predictes a molecular mass of 20.90 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 21 kDa band.

Product Information

Sequence Region	1-172
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 1-172 aa (Q96N28) 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 PRELI domain containing protein 3A (Protein slowmo homolog 1) fragment (amino acids 1-172) encompassing the complete PRELI/MSF1 functional domains. This high-quality protein is ideal for studying phosphatidic acid transport mechanisms and mitochondrial lipid metabolism in human cellular systems. The full-length PRELI domain containing protein 3A, encoded by the PRELI3DA gene, functions as a key component in mitochondrial lipid transport. Specifically, the TRIAP1:PRELID3A complex mediates the transfer of phosphatidic acid (PA) between liposomes and likely serves as a PA transporter across the mitochondrial intermembrane space. This phosphatidic acid import is essential for cardiolipin synthesis in the mitochondrial inner membrane, a critical process for maintaining mitochondrial membrane integrity and function. The protein is localized exclusively to the mitochondrion, where it plays a vital role in lipid metabolism and mitochondrial membrane biogenesis.