Recombinant PITM3 protein (His tag)

Catalog Number	545871
Synonyms	Phosphatidylinositol transfer protein, membrane-associated 3; PITPnm 3; Pyk2 N-terminal domain-interacting receptor 1; NIR-1
Species	Human
Expression System	E. coli
Accession	Q9BZ71
Molecular Weight	Predictes a molecular mass of 41.59 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 42 kDa band.

Product Information

Sequence Region	539-894
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>86%, 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 539-894 aa (Q9BZ71) 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 PITPNM3 Protein Fragment (539-894) is a high-quality, soluble protein fragment derived from the membrane-associated phosphatidylinositol transfer protein 3. This fragment is engineered for stability and is ideal for structural studies, biochemical assays, and functional investigations into phosphatidylinositol and phosphatidylcholine transfer mechanisms. The full-length Membrane-associated phosphatidylinositol transfer protein 3 (PITPNM3) in Homo sapiens catalyzes the transfer of phosphatidylinositol and phosphatidylcholine between membranes in vitro, as supported by sequence similarity evidence. It also binds calcium ions, indicating potential regulatory roles in calcium-dependent processes. The protein is localized to the endomembrane system and functions as a peripheral membrane protein, suggesting involvement in intracellular lipid trafficking and membrane dynamics. This recombinant fragment (residues 539-894) was selected computationally to provide a stable, soluble unit for detailed analysis, enabling researchers to explore its structural and functional properties without membrane-associated complexities.