Recombinant MTMRE protein (His tag)

Catalog Number	540780
Synonyms	HCV NS5A-transactivated protein 4 splice variant A-binding protein 1; NS5ATP4ABP1; Myotubularin-related protein 14; Phosphatidylinositol-3-phosphate phosphatase; hJumpy
Species	Human
Expression System	E. coli
Accession	Q8NCE2
Molecular Weight	Predictes a molecular mass of 27.42 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 28 kDa band.

Product Information

Sequence Region	190-408
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>89%, 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 190-408 aa (Q8NCE2) 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 MTMR14 protein fragment (residues 190-408) is a high-purity, stable product designed for structural and biochemical studies. This fragment represents a soluble and functional unit of the Phosphatidylinositol-3,5-bisphosphate 3-phosphatase, enabling research into its lipid phosphatase activity and regulatory mechanisms. The full-length MTMR14 protein, also known as myotubularin-related protein 14 or hJumpy, functions as a lipid phosphatase that specifically dephosphorylates phosphatidylinositol 3-phosphate and phosphatidylinositol 3,5-bisphosphate at the D-3 position, producing phosphatidylinositol and phosphatidylinositol 5-phosphate. This activity is critical for phosphoinositide signaling and membrane dynamics. The protein localizes to the cytoplasm, particularly in reticular structures and plasma membrane ruffles, often concentrated near the nucleus, suggesting roles in intracellular trafficking and membrane remodeling processes.