Recombinant MTMRC protein (His tag)

Catalog Number	545883
Synonyms	Inactive phosphatidylinositol 3-phosphatase 12; Phosphatidylinositol 3 phosphate 3-phosphatase adapter subunit; 3-PAP; 3-phosphatase adapter protein
Species	Human
Expression System	E. coli
Accession	Q9C0I1
Molecular Weight	Predictes a molecular mass of 10.42 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 11 kDa band.

Product Information

Sequence Region	609-682
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 609-682 aa (Q9C0I1) 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 protein fragment of Myotubularin-related protein 12 (MTMR12), corresponding to residues 609-682. This 74-amino acid fragment is a stable, soluble unit ideal for structural studies and biochemical assays, supporting research into phosphatidylinositol phosphatase regulation and skeletal muscle maintenance. Myotubularin-related protein 12 (MTMR12) functions as an adapter for myotubularin-related phosphatases, regulating the stability and intracellular localization of MTM1. It is essential for skeletal muscle maintenance, though not for myogenesis. The protein localizes to the cytoplasm, sarcoplasmic reticulum, and sarcomere in skeletal muscles, often associating with MTM1 in punctate vesicles and triads. This fragment provides a focused tool for investigating MTMR12's adapter role without domain interference.