Recombinant MTMR5 protein (His tag)

Catalog Number	534879
Synonyms	Inactive phosphatidylinositol 3-phosphatase 5
Species	Caenorhabditis elegans
Expression System	E. coli
Accession	Q9TXP3
Gene ID	180792
Molecular Weight	Predictes a molecular mass of 41.65 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 45 kDa band.

Product Information

Sequence Region	1-350
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>88%, 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 1-350 aa (Q9TXP3) 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 Myotubularin-related protein 5 (mtm-5) fragment (residues 1-350) from Caenorhabditis elegans, designed to encompass the complete uDENN and cDENN domains. This fragment serves as an essential tool for investigating domain-specific functions in cellular signaling and adapter mechanisms. Myotubularin-related protein 5 is a putative adapter protein that likely facilitates interactions with other myotubularin-like phosphatases, playing a role in phosphoinositide signaling pathways. Although the subcellular localization is not fully characterized, its function as an adapter suggests involvement in intracellular signaling complexes. The provided fragment (1-350) retains the critical uDENN and cDENN domains, enabling focused studies on their structural and functional contributions without interference from other regions of the full-length protein.