Recombinant MTMRA protein (His tag)

Catalog Number	550243
Synonyms	Inactive phosphatidylinositol 3-phosphatase 10
Species	Human
Expression System	E. coli
Accession	Q9NXD2
Molecular Weight	Predictes a molecular mass of 41.45 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 42 kDa band.

Product Information

Sequence Region	218-558
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 218-558 aa (Q9NXD2) 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 10 (MTMR10) fragment (residues 218-558) from Homo sapiens, representing a stable and soluble unit ideal for structural and biochemical studies. This inactive phosphatidylinositol 3-phosphatase 10 fragment is optimized for research applications requiring high purity and reliability. Myotubularin-related protein 10 (MTMR10) is a member of the myotubularin family, which is involved in the regulation of phosphoinositide signaling pathways. As an inactive phosphatidylinositol 3-phosphatase, MTMR10 lacks catalytic activity but may play regulatory roles in cellular processes such as membrane trafficking and signal transduction. The full-length protein's specific subcellular localization and detailed functional mechanisms are areas of ongoing research, highlighting its importance in understanding phosphoinositide metabolism and related physiological contexts.