Recombinant PP16A protein (His tag)

Catalog Number	541007
Synonyms	Myosin phosphatase-targeting subunit 3
Species	Human
Expression System	E. coli
Accession	Q96I34
Molecular Weight	Predictes a molecular mass of 40.92 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 44 kDa band.

Product Information

Sequence Region	1-359
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 1-359 aa (Q96I34) 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 Protein Phosphatase 1 Regulatory Subunit 16A (PPP1R16A) Fragment (1-359) is a high-quality, soluble protein fragment designed for structural and biochemical studies. This product captures a stable region of the myosin phosphatase-targeting subunit 3, enabling research into its regulatory role in phosphatase activity. Protein phosphatase 1 regulatory subunit 16A, also known as myosin phosphatase-targeting subunit 3, functions as an inhibitor of protein phosphatase 1 activity, specifically targeting substrates such as phosphorylase and myosin light chain. This regulatory role is critical in cellular processes involving myosin dynamics and phosphorylation signaling. The protein is localized to the cell membrane, where it is anchored via lipid modification, suggesting its involvement in membrane-associated signaling pathways. The provided fragment (residues 1-359) represents a computationally optimized, stable unit that facilitates experimental investigation of its functional properties without the complexities of full-length membrane association.