Recombinant PP1R7 protein (His tag)

Catalog Number	538092
Synonyms	Protein phosphatase 1 regulatory subunit 22
Species	Human
Expression System	E. coli
Accession	Q15435
Molecular Weight	Predictes a molecular mass of 36.11 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 39 kDa band.

Product Information

Sequence Region	65-360
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>90%, 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 65-360 aa (Q15435) 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 PPP1R7 (Protein phosphatase 1 regulatory subunit 7) fragment (aa 65-360) - a precisely engineered protein domain tool designed for studying the LRRCT functional domain. This high-quality recombinant protein enables researchers to investigate specific regulatory mechanisms of protein phosphatase 1 in nuclear signaling pathways. Protein phosphatase 1 regulatory subunit 7 (PPP1R7) functions as a regulatory subunit of protein phosphatase 1, playing a crucial role in modulating phosphatase activity and cellular signaling processes. The full-length protein is localized to the nucleus, indicating its involvement in nuclear regulatory functions. As a regulatory subunit, PPP1R7 helps control the specificity and activity of protein phosphatase 1, which is essential for various cellular processes including signal transduction, cell cycle progression, and metabolic regulation. The nuclear localization suggests potential roles in gene expression regulation, DNA damage response, or chromatin remodeling pathways.