Recombinant IPP2L protein (His tag)

Catalog Number	552018
Synonyms	Protein phosphatase 1, regulatory subunit 2 pseudogene 1
Species	Human
Expression System	E. coli
Accession	Q96PQ5
Molecular Weight	Predictes a molecular mass of 20.46 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 24 kDa band.

Product Information

Sequence Region	1-168
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 1-168 aa (Q96PQ5) 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	Introducing our high-quality recombinant protein: the Putative Protein Phosphatase Inhibitor 2-like Protein 1 (PPP1R2P1) fragment (amino acids 1-168). This 168-amino acid fragment has been computationally designed for optimal stability and solubility, making it an ideal tool for structural studies and biochemical assays investigating protein phosphatase regulation. The full-length Putative Protein Phosphatase Inhibitor 2-like Protein 1, encoded by the PPP1R2P1 gene in Homo sapiens, functions as an inhibitor of protein phosphatase 1. Protein phosphatase 1 (PP1) is a major serine/threonine phosphatase involved in numerous cellular processes, including cell cycle progression, metabolism, and signal transduction. Inhibitors of PP1, such as the protein represented by this product, play crucial roles in fine-tuning phosphorylation-dependent signaling pathways by regulating PP1 activity. While the subcellular localization of this specific protein is not fully characterized, PP1 inhibitors generally help control phosphatase activity in various cellular compartments, contributing to precise spatial and temporal regulation of dephosphorylation events.