Recombinant 2A5D protein (His tag)

Catalog Number	538060
Synonyms	PP2A B subunit isoform B'-delta; PP2A B subunit isoform B56-delta; PP2A B subunit isoform PR61-delta; PP2A B subunit isoform R5-delta
Species	Human
Expression System	E. coli
Accession	Q14738
Molecular Weight	Predictes a molecular mass of 56.44 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 59 kDa band.

Product Information

Sequence Region	89-553
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 89-553 aa (Q14738) 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	This recombinant protein product features a stable and soluble fragment (residues 89-553) of the human Serine/threonine-protein phosphatase 2A 56 kDa regulatory subunit delta isoform (PPP2R5D). It is designed for structural and biochemical studies, offering researchers a reliable tool to investigate the regulatory mechanisms of PP2A, a key enzyme in cellular signaling pathways. The full-length Serine/threonine-protein phosphatase 2A 56 kDa regulatory subunit delta isoform plays a critical role in modulating the substrate selectivity and catalytic activity of the PP2A enzyme complex. It also aids in directing the catalytic component to specific subcellular locations, thereby influencing various cellular processes. This protein is localized in both the cytoplasm and nucleus, with nuclear presence maintained during interphase and mitosis, highlighting its importance in cell cycle regulation and nuclear functions. The provided fragment represents a computationally optimized region for experimental use, ensuring high stability and solubility while retaining functional relevance.