Recombinant 2ABD protein (His tag)

Catalog Number	548717
Synonyms	PP2A subunit B isoform B55-delta; PP2A subunit B isoform PR55-delta; PP2A subunit B isoform R2-delta; PP2A subunit B isoform delta
Species	Human
Expression System	E. coli
Accession	Q66LE6
Molecular Weight	Predictes a molecular mass of 53.70 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 58 kDa band.

Product Information

Sequence Region	1-453
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 1-453 aa (Q66LE6) 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 Serine/threonine-protein phosphatase 2A 55 kDa regulatory subunit B delta isoform (PP2A subunit B isoform B55-delta) fragment (amino acids 1-453) is a high-quality protein preparation ideal for investigating cell cycle regulation and mitotic control mechanisms. This stable, soluble fragment maintains key functional characteristics, making it suitable for structural studies, biochemical assays, and functional analyses. The full-length Serine/threonine-protein phosphatase 2A 55 kDa regulatory subunit B delta isoform, encoded by the PPP2R2D gene, serves as a crucial substrate-recognition component of protein phosphatase 2A (PP2A) complexes. This regulatory subunit plays an essential role in cell cycle progression by controlling both mitosis entry and exit. It is particularly involved in chromosome clustering during late mitosis through dephosphorylation of MKI67. The activity of PP2A complexes containing PPP2R2D exhibits cell cycle-dependent fluctuations, with high activity during interphase and low activity during mitosis. The protein is primarily localized to the cytoplasm, where it performs its regulatory functions in cellular signaling pathways.