Recombinant 2A5B protein (His tag)

Catalog Number	542707
Synonyms	PP2A B subunit isoform B'-beta; PP2A B subunit isoform B56-beta; PP2A B subunit isoform PR61-beta; PP2A B subunit isoform R5-beta
Species	Human
Expression System	E. coli
Accession	Q15173
Molecular Weight	Predictes a molecular mass of 52.72 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 55 kDa band.

Product Information

Sequence Region	58-497
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>89%, 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 58-497 aa (Q15173) 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 56 kDa regulatory subunit beta isoform (PP2A B56-beta) fragment (residues 58-497) is a stable, soluble protein designed for structural and biochemical studies. This 440-amino acid fragment retains key functional properties, enabling research into PP2A holoenzyme regulation and its role in cellular signaling pathways. The full-length Serine/threonine-protein phosphatase 2A 56 kDa regulatory subunit beta isoform serves as the regulatory component of the PP2A holoenzyme, modulating substrate specificity, subcellular localization, and phosphorylation responsiveness. It plays a crucial role in cellular signaling by mediating the interaction between PP2A and AKT1, leading to AKT1 dephosphorylation. The protein is primarily localized in the cytoplasm, where it contributes to the regulation of important cellular processes through its phosphatase activity.