Recombinant 2ABB protein (His tag)

Catalog Number	547165
Synonyms	PP2A subunit B isoform B55-beta; PP2A subunit B isoform PR55-beta; PP2A subunit B isoform R2-beta; PP2A subunit B isoform beta
Species	Human
Expression System	E. coli
Accession	Q00005
Molecular Weight	Predictes a molecular mass of 53.37 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 58 kDa band.

Product Information

Sequence Region	1-443
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 1-443 aa (Q00005) 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 beta isoform (PP2A subunit B isoform B55-beta), encompassing amino acids 1-443, is a high-purity protein fragment engineered for stability and solubility. This product is ideal for investigating PP2A complex regulation, substrate selectivity, and its roles in cellular signaling pathways, supporting structural and biochemical research applications. The full-length Serine/threonine-protein phosphatase 2A 55 kDa regulatory subunit B beta isoform, encoded by the PPP2R2B gene in Homo sapiens, functions as a regulatory component of the PP2A holoenzyme. It modulates substrate selectivity and catalytic activity, potentially directing the enzyme to specific subcellular compartments. Isoform 2, in particular, is implicated in promoting proapoptotic activity and regulating neuronal survival by influencing the mitochondrial fission and fusion balance. Subcellular localization varies by isoform: isoform 1 is found in the cytoplasm, cytoskeleton, and membrane, while isoform 2 localizes to the cytoplasm and mitochondria, including the outer mitochondrial membrane, with relocalization to mitochondria during apoptosis to support its proapoptotic role.