Recombinant 2A5G protein (His tag)

Catalog Number	544917
Synonyms	PP2A B subunit isoform B'-gamma; PP2A B subunit isoform B56-gamma; PP2A B subunit isoform PR61-gamma; PP2A B subunit isoform R5-gamma; Renal carcinoma antigen NY-REN-29
Species	Human
Expression System	E. coli
Accession	Q13362
Molecular Weight	Predictes a molecular mass of 56.94 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 59 kDa band.

Product Information

Sequence Region	1-473
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 1-473 aa (Q13362) 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 product is a recombinant fragment of the Serine/threonine-protein phosphatase 2A 56 kDa regulatory subunit gamma isoform (PPP2R5C), encompassing amino acids 1-473. It is designed as a stable and soluble unit, ideal for structural studies, biochemical assays, and investigating its regulatory roles in cellular signaling pathways. The full-length PPP2R5C protein functions as a regulatory subunit of protein phosphatase 2A (PP2A), modulating substrate selectivity, catalytic activity, and subcellular localization of the enzyme complex. It plays a critical role in DNA damage response by dephosphorylating and activating TP53, thereby inhibiting cell proliferation. Additionally, it regulates the ERK signaling pathway through ERK dephosphorylation. The protein is localized to the nucleus and centromere, underscoring its importance in chromatin-associated processes and cell division.