Recombinant 2A5E protein (His tag)

Catalog Number	542741
Synonyms	PP2A B subunit isoform B'-epsilon; PP2A B subunit isoform B56-epsilon; PP2A B subunit isoform PR61-epsilon; PP2A B subunit isoform R5-epsilon
Species	Human
Expression System	E. coli
Accession	Q16537
Molecular Weight	Predictes a molecular mass of 51.52 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 55 kDa band.

Product Information

Amino Acid Sequence	MNHKVLTPLP LLKDVPSSEQ PELFLKKLQQ CCVIFDFMDT LSDLKMKEYK RSTLNELVDY ITISRGCLTE QTYPEVVRMV SCNIFRTLPP SDSNEFDPEE DEPTLEASWP HLQLVYEFFI RFLESQEFQP SIAKKYIDQK FVLQLLELFD SEDPRERDYL KTVLHRIYGK FLGLRAFIRK QINNIFLRFV YETEHFNGVA ELLEILGSII NGFALPLKAE HKQFLVKVLI PLHTVRSLSL FHAQLAYCIV QFLEKDPSLT EPVIRGLMKF WPKTCSQKEV MFLGELEEIL DVIEPSQFVK IQEPLFKQIA KCVSSPHFQV AERALYYWNN EYIMSLIEEN SNVILPIMFS SLYRISKEHW NPAIVALVYN VLKAFMEMNS TMFDELTATY KSDRQREKKK EKEREELWKK LEDLELKRGL RRDGIIPTLE HHHHHH
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 45-467 aa (Q16537) were fused with C-terminal 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.

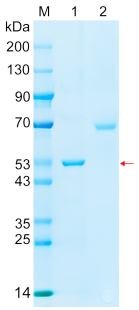
Description

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Recombinant human Serine/threonine-protein phosphatase 2A 56 kDa regulatory subunit epsilon isoform (PP2A B subunit isoform B56-epsilon), featuring a stable 423-amino acid fragment (residues 45-467) optimized for structural and biochemical studies. This high-quality protein enables researchers to investigate PP2A regulatory mechanisms and substrate specificity in controlled experimental settings.
The full-length Serine/threonine-protein phosphatase 2A 56 kDa regulatory subunit epsilon isoform serves as a critical regulatory component of the PP2A holoenzyme. This B regulatory subunit modulates substrate selectivity and catalytic activity of the phosphatase complex, while potentially directing its localization to specific subcellular compartments. Primarily located in the cytoplasm, this protein plays a fundamental role in regulating various cellular signaling pathways through its influence on PP2A's dephosphorylation activities. The recombinant fragment provided represents a computationally optimized region that maintains structural integrity and solubility, making it ideal for mechanistic studies of PP2A regulation and function.

Validation

SDS-PAGE



Recombinant 2A5E protein (His tag) SDS-PAGE
M: Marker; Lane 1: 2A5E; Lane 2: BSA