Recombinant PKN2 protein (His tag)

Catalog Number	542740
Synonyms	PKN gamma; Protein kinase C-like 2; Protein-kinase C-related kinase 2
Species	Human
Expression System	E. coli
Accession	Q16513
Molecular Weight	Predictes a molecular mass of 40.22 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 45 kDa band.

Product Information

Sequence Region	651-984
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>87%, 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 651-984 aa (Q16513) 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 kinase N2 (PKN2) Fragment (aa 651-984) is a high-purity protein encompassing the complete Protein kinase, AGC-kinase C-terminal domains. This fragment serves as an essential tool for investigating kinase activity, Rho/Rac signaling, and domain-specific functions in cytoskeletal regulation, cell migration, and transcriptional activation. Serine/threonine-protein kinase N2 (PKN2) is a Rho/Rac effector protein and PKC-related kinase that regulates critical cellular processes including cell cycle progression, actin cytoskeleton assembly, cell adhesion, migration, and tumor cell invasion. It phosphorylates targets such as CTTN and HDAC5, modulates epithelial junction formation, and participates in cytokinesis through ECT2-dependent mechanisms. The protein localizes to multiple cellular compartments including cytoplasm, nucleus, membrane, lamellipodia, cytoskeleton, cleavage furrow, and cell junctions, reflecting its diverse functional roles in signal transduction pathways.