Recombinant PEAK3 protein (His tag)

Catalog Number	548743
Species	Human
Expression System	E. coli
Accession	Q6ZS72
Molecular Weight	Predictes a molecular mass of 38.79 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 39 kDa band.

Product Information

Sequence Region	126-473
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>88%, 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 126-473 aa (Q6ZS72) 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 PEAK3 Protein (aa 126-473) is a highly purified, stable fragment of the PEAK3 kinase domain, specifically engineered for structural and biochemical studies. This 348-amino acid fragment represents a soluble, functional unit ideal for investigating CRK-II signaling pathways and kinase regulatory mechanisms. PEAK3 (Protein PEAK3) is a probable catalytically inactive kinase that plays a crucial role in cellular signaling regulation. The full-length protein interacts with CRK-II and antagonizes CRK-II-mediated signaling pathways, preventing the formation of CRK-II-dependent membrane ruffling and lamellipodia-like extensions. This regulatory function positions PEAK3 as an important modulator of cytoskeletal dynamics and cell motility processes, with implications for understanding cellular migration and signaling networks.