Recombinant KAP2 protein (His tag)

Catalog Number	542133
Species	Human
Expression System	E. coli
Accession	P13861
Molecular Weight	Predictes a molecular mass of 36.74 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 41 kDa band.

Product Information

Sequence Region	96-404
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 96-404 aa (P13861) 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	Introducing the recombinant human cAMP-dependent protein kinase type II-alpha regulatory subunit (PRKAR2A) fragment (residues 96-404), a highly stable and soluble protein unit ideal for structural biology and biochemical studies. This fragment captures essential features of the regulatory subunit, supporting research into cAMP signaling pathways and kinase regulation. The full-length cAMP-dependent protein kinase type II-alpha regulatory subunit (PRKAR2A) is a key component of cAMP-dependent protein kinases, which play a central role in intracellular cAMP signaling. It functions as a regulatory chain that mediates membrane association by interacting with anchoring proteins, such as the MAP2 kinase, thereby facilitating localized signaling events. The protein is primarily located in the cytoplasm and at the cell membrane, where it colocalizes with proteins like PJA2, underscoring its importance in spatially regulated cellular processes. This fragment (residues 96-404) was selected for its stability and solubility, enabling detailed investigations into the protein's functional domains and interactions.