Recombinant KPB2 protein (His tag)

Catalog Number	544622
Synonyms	Phosphorylase kinase alpha L subunit
Species	Human
Expression System	E. coli
Accession	P46019
Molecular Weight	Predictes a molecular mass of 27.38 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 28 kDa band.

Product Information

Sequence Region	753-984
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>85%, 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 753-984 aa (P46019) 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 Phosphorylase b Kinase Regulatory Subunit Alpha, Liver Isoform (PHKA2) Fragment (753-984) is a high-quality protein fragment designed for structural and biochemical studies. This 232-amino acid fragment represents a stable, soluble region of the protein, ideal for investigating its regulatory mechanisms and interactions. Phosphorylase b kinase regulatory subunit alpha, liver isoform (encoded by PHKA2) is a key component of phosphorylase b kinase, which catalyzes the phosphorylation of serine residues in substrates such as troponin I. The alpha subunit may bind calmodulin, suggesting a role in calcium-dependent regulation. Located on the cytoplasmic side of the cell membrane and anchored via lipids, this protein is implicated in glycogen metabolism and signal transduction pathways. The selected fragment (753-984) provides a well-defined, soluble unit for probing the protein's functional domains without the complexities of full-length expression.