Recombinant PRKY protein (His tag)

Catalog Number	548899
Species	Human
Expression System	E. coli
Accession	O43930
Molecular Weight	Predictes a molecular mass of 29.06 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 29 kDa band.

Product Information

Sequence Region	44-277
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>86%, 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 44-277 aa (O43930) 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 PRKY Protein Kinase Domain (44-277) is a high-purity fragment encompassing the complete protein kinase catalytic domain of Putative serine/threonine-protein kinase PRKY. This specialized construct provides researchers with an ideal tool for investigating kinase activity, substrate specificity, and signaling mechanisms of this important human enzyme. Putative serine/threonine-protein kinase PRKY (UniProt ID: O43930) is a human protein classified under EC 2.7.11.1, indicating its function as a serine/threonine-protein kinase. As a kinase, PRKY plays a crucial role in cellular signaling pathways by catalyzing the transfer of phosphate groups to serine and threonine residues on target proteins, thereby regulating various biological processes including cell growth, differentiation, and metabolic pathways. The specific functional roles and regulatory mechanisms of PRKY in human physiology and disease contexts represent an important area of ongoing research in molecular biology and cell signaling.