Recombinant CDK2 protein (His tag)

Catalog Number	531529
Synonyms	Cell division control protein 2 cognate
Species	Drosophila melanogaster
Expression System	E. coli
Accession	P23573
Gene ID	42453
Molecular Weight	Predictes a molecular mass of 37.54 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 38 kDa band.

Product Information

Sequence Region	1-314
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 1-314 aa (P23573) 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 Drosophila melanogaster Cyclin-dependent kinase 2 (Cdk2) fragment (amino acids 1-314) is a high-purity protein encompassing the complete Protein kinase domain. This fragment serves as an essential tool for researchers studying cell cycle regulation mechanisms, kinase activity assays, and eukaryotic cell division processes. Cyclin-dependent kinase 2 (Cdk2) functions as a key regulator in the eukaryotic cell cycle, similar to Cdk1. As indicated by its EC numbers (2.7.11.22 and 2.7.11.23), it possesses kinase activity critical for cell division control. The full-length protein plays a fundamental role in coordinating cell cycle progression, making it a significant target for cell biology and cancer research. The recombinant fragment containing the complete Protein kinase domain (amino acids 1-314) enables focused investigation of this catalytic region's specific functions and interactions.