Recombinant CSK2A protein (His tag)

Catalog Number	533149
Synonyms	CK II subunit alpha
Species	Drosophila melanogaster
Expression System	E. coli
Accession	P08181
Gene ID	48448
Molecular Weight	Predictes a molecular mass of 41.48 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 44 kDa band.

Product Information

Sequence Region	2-336
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 2-336 aa (P08181) 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 Casein kinase II subunit alpha (CK II subunit alpha, EC 2.7.11.1) fragment (residues 2-336) is a high-purity protein encompassing the complete Protein kinase domain. This fragment serves as an ideal tool for investigating kinase activity, substrate specificity, and domain-specific functions in cellular signaling pathways. Casein kinase II subunit alpha is a catalytic component of casein kinase II, which preferentially phosphorylates acidic proteins like caseins. It plays a critical role in cellular processes, including potential involvement in Wnt signaling pathways. The protein is localized to the nucleus and nucleolus, indicating its importance in nuclear functions and regulatory mechanisms. The recombinant fragment (2-336) retains the essential Protein kinase domain, enabling focused studies on its catalytic and signaling roles without interference from other regulatory regions.