Recombinant CDKL2 protein (His tag)

Catalog Number	543313
Synonyms	Protein kinase p56 KKIAMRE; Serine/threonine-protein kinase KKIAMRE
Species	Human
Expression System	E. coli
Accession	Q92772
Molecular Weight	Predictes a molecular mass of 37.77 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 40 kDa band.

Product Information

Sequence Region	1-311
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 1-311 aa (Q92772) 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 Cyclin-dependent kinase-like 2 (CDKL2) fragment (amino acids 1-311), encompassing the complete protein kinase domain. This high-purity human protein is ideal for investigating kinase activity, signaling pathways, and domain-specific functions in cellular regulation. Cyclin-dependent kinase-like 2 (CDKL2) is a serine/threonine-protein kinase involved in cell cycle control and signal transduction. The full-length protein localizes to both the cytoplasm and nucleus, suggesting roles in multiple cellular compartments. While detailed functional data is limited, its classification as a protein kinase implies involvement in phosphorylation-mediated regulatory mechanisms. This recombinant fragment provides a targeted tool for studying the isolated kinase domain's structure, enzymatic activity, and interactions without interference from other regulatory regions.