Recombinant CDKL1 protein (His tag)

Catalog Number	540146
Synonyms	Protein kinase p42 KKIALRE; Serine/threonine-protein kinase KKIALRE
Species	Human
Expression System	E. coli
Accession	Q00532
Molecular Weight	Predictes a molecular mass of 36.59 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 38 kDa band.

Product Information

Sequence Region	1-300
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 1-300 aa (Q00532) 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 Cyclin-dependent kinase-like 1 (CDKL1) fragment (residues 1-300), encompassing the complete protein kinase domain. This high-purity fragment serves as an essential tool for investigating kinase activity, substrate interactions, and signaling mechanisms in cellular regulation. Cyclin-dependent kinase-like 1 (CDKL1), also known as serine/threonine-protein kinase KKIALRE, is a human enzyme (EC 2.7.11.22) involved in phosphorylation-mediated signaling pathways. The protein localizes to both the cytoplasm and nucleus, suggesting roles in diverse cellular compartments. This recombinant fragment spans the critical protein kinase domain (residues 4-287), enabling focused studies on its catalytic function and regulatory mechanisms without interference from other protein regions.