Recombinant CDK19 protein (His tag)

Catalog Number	548137
Synonyms	CDC2-related protein kinase 6; Cell division cycle 2-like protein kinase 6; Cell division protein kinase 19; Cyclin-dependent kinase 11; Death-preventing kinase
Species	Human
Expression System	E. coli
Accession	Q9BWU1
Molecular Weight	Predictes a molecular mass of 43.81 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 46 kDa band.

Product Information

Sequence Region	1-361
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 1-361 aa (Q9BWU1) 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 CDK19 Protein Kinase Domain (residues 1-361) offers a high-purity, functional fragment encompassing the complete protein kinase domain of Cyclin-dependent kinase 19. This product is an essential tool for investigating kinase activity, substrate interactions, and regulatory mechanisms in cell cycle control and transcriptional regulation, providing researchers with a targeted reagent for domain-specific studies. Cyclin-dependent kinase 19 (CDK19) is a CDC2-related serine/threonine kinase involved in cell cycle progression and transcriptional regulation. The full-length protein exhibits dynamic subcellular localization, being present in the cytoplasm, perinuclear region, and nucleus, suggesting roles in multiple cellular compartments. CDK19 has been characterized as a death-preventing kinase, indicating potential functions in cell survival pathways. The recombinant fragment (residues 1-361) containing the complete protein kinase domain (residues 21-335) enables focused investigation of the catalytic core functionality without confounding effects from other regulatory regions.