Recombinant CDK18 protein (His tag)

Catalog Number	547211
Synonyms	Cell division protein kinase 18; PCTAIRE-motif protein kinase 3; Serine/threonine-protein kinase PCTAIRE-3
Species	Human
Expression System	E. coli
Accession	Q07002
Molecular Weight	Predictes a molecular mass of 41.56 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 42 kDa band.

Product Information

Sequence Region	125-474
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 125-474 aa (Q07002) 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 CDK18 Protein Kinase Domain (residues 125-474) is a high-quality fragment of Cyclin-dependent kinase 18, encompassing the complete protein kinase domain. This product is an essential tool for investigating kinase activity and signal transduction mechanisms in differentiated cells. Cyclin-dependent kinase 18 (CDK18) is a serine/threonine-protein kinase implicated in signal transduction cascades within terminally differentiated cells. While its precise signaling pathways are still being elucidated, CDK18 is thought to regulate key cellular processes in mature, non-dividing cells, contributing to specialized functions and homeostasis. The provided fragment includes the functional protein kinase domain, enabling focused studies on its catalytic role and interactions in these signaling networks.