Recombinant CCNQ protein (His tag)

Catalog Number	543121
Synonyms	CDK10-activating cyclin; Cyclin-M; Cyclin-related protein FAM58A
Species	Human
Expression System	E. coli
Accession	Q8N1B3
Molecular Weight	Predictes a molecular mass of 30.02 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 30 kDa band.

Product Information

Sequence Region	1-248
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 1-248 aa (Q8N1B3) 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	Introducing the recombinant human Cyclin-Q (CCNQ) fragment (residues 1-248), a stable and soluble protein unit designed for structural and biochemical studies. This fragment represents the CDK10-activating cyclin, essential for kinase regulation, and is optimized for high-quality research applications in cell cycle and signaling pathways. Cyclin-Q, also known as Cyclin-M or FAM58A, functions as an activating cyclin for the cyclin-associated kinase CDK10. This interaction plays a critical role in cellular processes, including transcriptional regulation and cell cycle progression, as supported by scientific evidence (PubMed:18297069, PubMed:24218572). The subcellular localization of Cyclin-Q is not fully characterized, but its association with CDK10 underscores its importance in kinase-mediated signaling networks, making it a valuable target for investigating cell proliferation and disease mechanisms.