Recombinant CACL1 protein (His tag)

Catalog Number	545354
Synonyms	Cdk-associated cullin 1
Species	Human
Expression System	E. coli
Accession	Q86Y37
Molecular Weight	Predictes a molecular mass of 29.71 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 30 kDa band.

Product Information

Sequence Region	126-369
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 126-369 aa (Q86Y37) 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 CDK2-associated and cullin domain-containing protein 1 (CACUL1) fragment (residues 126-369) is a high-purity protein designed for structural and biochemical studies. This fragment supports research into cell cycle regulation by enabling investigation of CACUL1's role in CDK2 activation and G1/S phase transition. The full-length CACUL1 protein is a cell cycle-associated regulator that promotes cell proliferation through activation of CDK2 during the G1/S phase transition, as supported by experimental evidence (PubMed:19829063). This makes CACUL1 a significant protein for studying cell cycle control mechanisms and proliferative diseases. The recombinant fragment (residues 126-369) represents a stable, soluble region computationally selected to facilitate structural characterization and functional assays.