Recombinant CABL2 protein (His tag)

Catalog Number	550226
Synonyms	Interactor with CDK3 2; Ik3-2
Species	Human
Expression System	E. coli
Accession	Q9BTV7
Molecular Weight	Predictes a molecular mass of 22.33 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 22 kDa band.

Product Information

Sequence Region	302-478
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 302-478 aa (Q9BTV7) 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 CDK5 and ABL1 enzyme substrate 2 (CABLES2) fragment (aa 302-478) is a high-quality protein product designed for structural and biochemical studies. This 177-amino acid fragment, computationally selected for stability and solubility, supports research into G1-S cell cycle transition mechanisms. The full-length CABLES2 protein, encoded by the gene CABLES2 in Homo sapiens, is implicated in the G1-S cell cycle transition, a critical regulatory checkpoint in cellular proliferation. While its precise molecular function remains under investigation, CABLES2 is thought to interact with key cell cycle regulators such as CDK5 and ABL1, highlighting its potential role in coordinating cell division processes. The subcellular localization of CABLES2 is not fully characterized, but its involvement in cell cycle progression suggests relevance to nuclear or cytoplasmic signaling pathways. This recombinant fragment provides a reliable tool for elucidating CABLES2's functional mechanisms in health and disease.