Recombinant CK5P2 protein (His tag)

Catalog Number	545756
Synonyms	CDK5 activator-binding protein C48; Centrosome-associated protein 215
Species	Human
Expression System	E. coli
Accession	Q96SN8
Molecular Weight	Predictes a molecular mass of 28.63 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 32 kDa band.

Product Information

Sequence Region	1394-1622
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>89%, 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 1394-1622 aa (Q96SN8) 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	This recombinant protein corresponds to amino acids 1394-1622 of human CDK5RAP2, a key regulator of CDK5 activity, centriole engagement, and microtubule dynamics. This fragment has been selected for its stability and solubility, making it an ideal tool for structural and biochemical studies. CDK5RAP2 (CDK5 regulatory subunit-associated protein 2) is a multifunctional protein involved in regulating CDK5 activity, maintaining centriole engagement, controlling mitotic spindle orientation, and promoting microtubule polymerization and dynamics. It plays a critical role in centrosomal maturation by recruiting the gamma-tubulin ring complex and contributes to microtubule nucleation and extension from the centrosome to the cell periphery. The protein is primarily localized to the centrosome, cytoplasm, cytoskeleton, and Golgi apparatus, where it interacts with key partners such as EB1/MAPRE1 and PDE4DIP to coordinate cellular processes essential for neurogenesis and cell division.