Recombinant CD5R2 protein (His tag)

Catalog Number	538014
Synonyms	CDK5 activator 2; Cyclin-dependent kinase 5 regulatory subunit 2; p39; p39I
Species	Human
Expression System	E. coli
Accession	Q13319
Molecular Weight	Predictes a molecular mass of 21.52 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 22 kDa band.

Product Information

Sequence Region	157-331
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 157-331 aa (Q13319) 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 activator 2 (CDK5R2) fragment (residues 157-331) is a high-purity protein designed for structural and biochemical studies. This fragment represents a stable, soluble unit of the protein, optimized for research applications investigating cyclin-dependent kinase regulation. Cyclin-dependent kinase 5 activator 2 (CDK5R2), also known as p39, functions as an activator of CDK5/TPKII, playing crucial roles in neuronal development and cell cycle regulation. The full-length protein is localized to the cytoplasmic side of the cell membrane through lipid-anchoring, where it participates in key signaling pathways. This recombinant fragment enables focused investigation of CDK5 activation mechanisms without membrane association complexities.