Recombinant CRIPT protein (His tag)

Catalog Number	546125
Synonyms	Cysteine-rich interactor of PDZ three; Cysteine-rich interactor of PDZ3
Species	Human
Expression System	E. coli
Accession	Q9P021
Molecular Weight	Predictes a molecular mass of 12.87 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 13 kDa band.

Product Information

Sequence Region	1-101
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>87%, 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 1-101 aa (Q9P021) 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 CRIPT (Cysteine-rich PDZ-binding protein) fragment (amino acids 1-101) is a high-quality, stable protein designed for structural and biochemical studies. This soluble fragment retains key functional regions, making it ideal for investigating spliceosome mechanisms and synaptic scaffolding. CRIPT is a component of the minor spliceosome, primarily involved in the splicing of U12-type introns in pre-mRNAs. It also plays a role in the cytoskeletal anchoring of DLG4 within excitatory synapses, contributing to synaptic organization. The protein localizes to the cytoplasm, synapses, and dendritic spines, where it colocalizes with DLG4 in asymmetric synapses, underscoring its importance in neuronal structure and RNA processing.