Recombinant BEGIN protein (His tag)

Catalog Number	545826
Species	Human
Expression System	E. coli
Accession	Q9BUH8
Molecular Weight	Predictes a molecular mass of 23.42 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 26 kDa band.

Product Information

Sequence Region	1-186
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>86%, 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 1-186 aa (Q9BUH8) 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 Brain-enriched guanylate kinase-associated protein (BEGAIN) fragment (residues 1-186) is a high-purity, soluble protein designed for structural and biochemical studies. This fragment represents a stable, functionally relevant region of BEGAIN, supporting research into postsynaptic density architecture. Brain-enriched guanylate kinase-associated protein (BEGAIN), encoded by the BEGAIN gene, plays a crucial role in sustaining the structural integrity of the postsynaptic density (PSD), a specialized region in neuronal synapses essential for signal transmission. The full-length protein is localized in the cytoplasm and associates with membranes as a peripheral membrane protein, indicating its involvement in membrane-associated complexes within the PSD. This recombinant fragment (residues 1-186) was selected for its stability and solubility, enabling detailed investigations into BEGAIN's molecular functions and its contributions to synaptic organization.