Recombinant GRIP2 protein (His tag)

Catalog Number	549365
Synonyms	GRIP-2
Species	Human
Expression System	E. coli
Accession	Q9C0E4
Molecular Weight	Predictes a molecular mass of 32.32 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 32 kDa band.

Product Information

Sequence Region	44-330
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 44-330 aa (Q9C0E4) 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 Glutamate receptor-interacting protein 2 (GRIP-2) fragment (aa 44-330) is a high-purity protein preparation encompassing the complete PDZ 1 and PDZ 2 domains. This specialized fragment serves as an essential research tool for investigating the specific scaffolding functions of GRIP-2's PDZ domains in neuronal signaling complexes. Glutamate receptor-interacting protein 2 (GRIP-2) functions as a localized scaffold protein that assembles multiprotein signaling complexes and mediates the trafficking of binding partners to specific subcellular locations in neurons. The full-length protein localizes to both the cytoplasm and membrane as a peripheral membrane protein, positioning it to coordinate protein interactions and transport within neuronal cells. This strategic localization enables GRIP-2 to organize signaling machinery at precise cellular compartments, making it crucial for understanding neuronal communication and protein trafficking mechanisms.