Recombinant GRD2I protein (His tag)

Catalog Number	550821
Synonyms	Glutamate receptor, ionotropic, delta 2-interacting protein 1
Species	Human
Expression System	E. coli
Accession	A4D2P6
Molecular Weight	Predictes a molecular mass of 22.86 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 23 kDa band.

Product Information

Sequence Region	277-466
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 277-466 aa (A4D2P6) 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 Delphilin (GRID2IP) Fragment (aa 277-466): A high-purity protein fragment encompassing the PDZ 2 domain, designed as a specialized tool for investigating synaptic scaffolding mechanisms and domain-specific interactions in neuronal signaling pathways. Delphilin, encoded by the GRID2IP gene, is a postsynaptic scaffolding protein localized at the parallel fiber-Purkinje cell synapse. It functions to link the glutamate receptor GRID2 with the actin cytoskeleton and various signaling molecules, playing a critical role in synaptic organization and signal transduction. This fragment, spanning residues 277-466, includes the PDZ 2 domain, enabling focused studies on its structural and functional contributions to these processes.