Recombinant EGFLA protein (His tag)

Catalog Number	538231
Synonyms	Agrin-like protein; EGF-like, fibronectin type-III and laminin G-like domain-containing protein
Species	Human
Expression System	E. coli
Accession	Q63HQ2
Molecular Weight	Predictes a molecular mass of 24.10 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 24 kDa band.

Product Information

Sequence Region	35-238
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>85%, 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 35-238 aa (Q63HQ2) 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 Pikachurin (EGFLAM) Fragment (aa 35-238) - A high-purity protein fragment encompassing the Fibronectin type-III 1 domain, designed for investigating synaptic organization and photoreceptor function in visual perception research. Pikachurin (also known as Agrin-like protein or EGF-like, fibronectin type-III and laminin G-like domain-containing protein) plays a crucial role in retinal photoreceptor ribbon synapse formation and visual perception. This protein mediates transsynaptic interaction between alpha-dystroglycan and GPR179 on the postsynaptic membrane, facilitating proper bipolar dendritic tip apposition to photoreceptor ribbon synapses. It also promotes matrix assembly and cell adhesiveness. Pikachurin localizes to the synaptic cleft of ribbon synapses around postsynaptic terminals of bipolar cells and is detected in presynaptic active zones, where it colocalizes with key synaptic proteins including BSN, CTBP2, and DAG1 in photoreceptor synaptic terminals. The secreted protein functions in the extracellular space and extracellular matrix, making it essential for understanding synaptic organization in visual pathways.