Recombinant DLG3 protein (His tag)

Catalog Number	540909
Synonyms	Neuroendocrine-DLG; Synapse-associated protein 102; SAP-102; SAP102; XLMR
Species	Human
Expression System	E. coli
Accession	Q92796
Molecular Weight	Predictes a molecular mass of 21.42 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 22 kDa band.

Product Information

Sequence Region	127-311
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 127-311 aa (Q92796) 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	Introducing the recombinant human Disks large homolog 3 (DLG3) fragment, encompassing amino acids 127-311. This product includes the critical PDZ 1 and PDZ 2 domains, making it an essential tool for investigating synaptic plasticity mechanisms and NMDA receptor-mediated signaling pathways in neuroscience research. Disks large homolog 3, also known as SAP-102, is a crucial synaptic scaffolding protein encoded by the DLG3 gene in humans. The full-length protein plays a fundamental role in learning processes, primarily through its involvement in synaptic plasticity following NMDA receptor signaling. As a key component of the postsynaptic density, DLG3/SAP-102 organizes signaling complexes at excitatory synapses, making it vital for understanding cognitive function and neural circuit development. The specific PDZ domains contained in this fragment mediate protein-protein interactions that are essential for its synaptic function.