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Datasheet for ABIN7553669
DLG4 Protein (AA 1-724) (His tag)

Overview

Quantity:	1 mg
Target:	DLG4
Protein Characteristics:	AA 1-724
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This DLG4 protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant DLG4 Protein expressed in mammalian cells.
Sequence:	MDCLCIVTTK KYRYQDEDTP PLEHSPAHLN NQANSPPVIV NTDLTLEAPGY ELQVNGTEGE MEYEEITLER GNSGLGFSIA GGTDNPHIGD DPSIFITKII PGGAAAQDGR LRVNDSILFV NEVDVREVTH SAAVEALKEA GSIVRLYVMR RKPPAEKVME IKLIKGPKGL GFSIAGGVGN QHIPGDNSIY VTKIIEGGAA HKDGRLQIGD KILAVNSVGL EDVMHEDAVA ALKNTYDVVY LKVAKPSNAY LSDSYAPDDI TTSYSQHLDN EISHSSYLG T DYPTAMTPTS PRRYSPVAKD LLGEEDIPRE PRRVIHRGS TGLGFNIVGG EDGEGIFISF ILAGGPADLS GELRKGQDIL SVNGVDLRNA SHEQAAIALK NAGQVTIIA QYKPEEYSRF EAKIHDLREQ LMNSSLGSGT ASLRSNPKRG FYIRALFDYD KTKDCGFLSQ ALSFRFGDVL HVIDASDEEW WQARRVHSDS ETDDIGFIPS KRRVERREWS RLKAKDWGSS SGSQGREDSV LSYETVTQME VHYARPIIIL GPTKDRANDD LLSEFPDKFG SCVPHTRPK REYEIDGRDY HFVSSREKME KDIQAHKFIE AGQYNShLYG TSVQSVREVA EQGKHCILDV SANAVRRLQA AHLHPAIFI RPRSLLENVLE INKRITEEQA RKAQFRATKL EQEFTECFSA IVEGDSFEEI YHKVKRVIED LSGPYIWWPA RERL

Sequence without tag. The proposed Purification-Tag is based on experiences with the expression system, a different complexity of the protein could make another tag necessary. In case you have a special request, please contact us.

Specificity: If you are looking for a specific domain and are interested in a partial protein or a different isoform, please contact us regarding an individual offer.

Characteristics: Key Benefits:

- Made to order protein - from design to production - by highly experienced protein experts.
- Protein expressed in mammalian cells and purified in one-step affinity chromatography
- The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins.
- State-of-the-art algorithm used for plasmid design (Gene synthesis).

This protein is a made-to-order protein and will be made for the first time for your order. Our experts in the lab try to ensure that you receive soluble protein.

If you are not interested in a full length protein, please contact us for individual protein fragments.

The big advantage of ordering our made-to-order proteins in comparison to ordering custom made proteins from other companies is that there is no financial obligation in case the protein cannot be expressed or purified.

Purity: > 90 % as determined by Bis-Tris PAGE, anti-tag ELISA, Western Blot and analytical SEC (HPLC)

Grade: custom-made

Target Details

Target: DLG4

Alternative Name: DLG4 ([DLG4 Products](#))

Background: Disks large homolog 4 (Postsynaptic density protein 95) (PSD-95) (Synapse-associated protein 90) (SAP-90) (SAP90),FUNCTION: Postsynaptic scaffolding protein that plays a critical role in synaptogenesis and synaptic plasticity by providing a platform for the postsynaptic clustering of crucial synaptic proteins. Interacts with the cytoplasmic tail of NMDA receptor subunits and shaker-type potassium channels. Required for synaptic plasticity associated with NMDA receptor signaling. Overexpression or depletion of DLG4 changes the ratio of excitatory to inhibitory synapses in hippocampal neurons. May reduce the amplitude of ASIC3 acid-evoked currents by retaining the channel intracellularly. May regulate the intracellular trafficking of

Target Details

ADR1B. Also regulates AMPA-type glutamate receptor (AMPA) immobilization at postsynaptic density keeping the channels in an activated state in the presence of glutamate and preventing synaptic depression (By similarity). Under basal conditions, cooperates with FYN to stabilize palmitoyltransferase ZDHHC5 at the synaptic membrane through FYN-mediated phosphorylation of ZDHHC5 and its subsequent inhibition of association with endocytic proteins (PubMed:26334723). {ECO:0000250|UniProtKB:Q62108, ECO:0000269|PubMed:26334723}.

Molecular Weight: 80.5 kDa

UniProt: [P78352](#)

Pathways: [Regulation of Muscle Cell Differentiation](#), [Synaptic Membrane](#), [Skeletal Muscle Fiber Development](#), [Asymmetric Protein Localization](#), [Regulation of long-term Neuronal Synaptic Plasticity](#)

Application Details

Application Notes: We expect the protein to work for functional studies. As the protein has not been tested for functional studies yet we cannot offer a guarantee though.

Restrictions: For Research Use only

Handling

Format: Liquid

Buffer: The buffer composition is at the discretion of the manufacturer.

Handling Advice: Avoid repeated freeze-thaw cycles.

Storage: -80 °C

Storage Comment: Store at -80°C.

Expiry Date: 12 months