

Datasheet for ABIN7564314  
**DLG1 Protein (AA 1-905) (His tag)**



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## Overview

|                               |   |
|-------------------------------|---|
| Quantity:                     | 1 mg  |
| Target:                       | DLG1  |
| Protein Characteristics:      | AA 1-905                                    |
| Origin:                       | Mouse                                       |
| Source:                       | HEK-293 Cells                               |
| Protein Type:                 | Recombinant                                 |
| Purification tag / Conjugate: | This DLG1 protein is labelled with His tag. |

## Product Details

|           |  |
|-----------|--|
| Purpose:  | Custom-made recombinant Dlg1 Protein expressed in mammalian cells.   |
| Sequence: | MPVRKQDTQR ALHLLLEEYRS KLSQTEDRQL RSSIERVINI FQSNLFQALI DIQEFYEVTL<br>LDNPKCVDHS KQCEPVQPVT TWEIASLPST AVTSETLPGS LSPPVEKYRY QDEEVLPPPEH<br>ISPQVTNEVL GPELVHVSEK NLSEIENVHG FVSHSHISPI KPTEAVPPSS PIVPVTPALP<br>VPAESTVVLV SAPQANPPPV LVNTDSLETP TYVNGTDADY EYEEITLERG NSGLGFSIAG<br>GTDNPHIGDD SSIFITKIIT GGAAAQDGRV RVNDCILRVN EADVRDVTHS KAVEALKEAG<br>SIVRLYVKRR KPASEKIMEI KLIKGPKGLG FSIAGGVGNQ HIPGDNSIYV TKIIEGGAH<br>KDGKLGDK LLAVNSVCLE EVTHEEAVTA LKNTSDFVYL KVAKPTSMYI NDGYAPPDIT<br>NSSSQSVDNH VSPSSCLGQT PTSPARYSPI SKAVLGDEI TREPRKVV LH RGSTGLGFNI<br>VGGEDGEGIF ISFILAGGPA DLSGELRKGD RIISVNSVDL RAASHEQAAA ALKNAGQAVT<br>IVAQYRPEEY SRFEAKIHDL REQMMNSSVS SGSGSLRTSQ KRSLYVRALF DYDKTKDSGL<br>PSQGLNFRFG DILHVINASD DEWWQARQVT PDGESDEGV IPSKRRVEKK ERARLKTVKF<br>NSKTRGDKGE IPDDMGSKGL KHVTSNASDS ESSYRGQEEY VLSYEPVNQQ EVNYTRPVII |

## Product Details

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LGPMKDRVND DLISEFPDKF GSCVPHTTRP KRDIYEVDRD YHFVTSREQM EKDIQEHKFI  
EAGQYNNHLY GTSVQSVRAV AEKGKHCILD VSGNAIKRLQ IAQLYPISIF IKPKSMENIM  
EMNKRLTEEQ ARKTFERAMK LEQEFTEHFT AIVQGDLED IYNQVKQIE EQSGPYIWVP AKEKL

**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.**

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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.

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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.

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

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Grade: custom-made

## Target Details

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Target: DLG1

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Alternative Name: Dlg1 ([DLG1 Products](#))

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Background: Disks large homolog 1 (Embryo-dlg/synapse-associated protein 97) (E-dlg/SAP97) (Synapse-associated protein 97) (SAP-97) (SAP97),FUNCTION: Essential multidomain scaffolding protein required for normal development. Recruits channels, receptors and signaling molecules to discrete plasma membrane domains in polarized cells. Regulates the excitability of cardiac myocytes by modulating the functional expression of Kv4 channels (By similarity). Functional

## Target Details

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regulator of Kv1.5 channel (By similarity). May play a role in adherens junction assembly, signal transduction, cell proliferation, synaptogenesis and lymphocyte activation. During long-term depression in hippocampal neurons, it recruits ADAM10 to the plasma membrane (PubMed:23676497). {ECO:0000250, ECO:0000269|PubMed:11238884, ECO:0000269|PubMed:23676497}.

Molecular Weight: 100.1 kDa

UniProt: [Q811D0](#)

Pathways: [Regulation of Actin Filament Polymerization](#), [Cell-Cell Junction Organization](#), [Production of Molecular Mediator of Immune Response](#)

## Application Details

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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

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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