

Recombinant Human DLG4 protein, His-tagged

Cat. No. DLG4-18H Lot. No. (See product label)

SPECIFICATION

Product Overview Recombinant Human Disks large homolog 4/DLG4/PSD95 is produced with our E. coli expression system. The target protein is expressed with sequence (Met1-Leu724) of Human DLG4 fused with a polyhistidine tag at the N-terminus.

Species Human

Source E.coli

ProteinLength 1-724 a.a.

Form Lyophilized from a 0.2 µm filtered solution of PBS,pH 7.4

AA Sequence

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MNHKVVHHHHHHMDCLCIVTTKKYRYQDEDTPPLEHSPAHLPNQANSPPVIVNTDTL
EAPGYELQV NGTEGEMEYEEITLERGNSGLGFSIAGGTDNPHIGDDPSIFITKIIPGG
AAAQDGRLRVND SILF VNEVDVREVTTHSAAVEALKEAGSIVRLYVMRRKPPAEKVM
EIKLIKGPKGLGFSIAGGVGNQHIP GDNSIYVTKIIEGGAHKDGRLQIGDKILAVNSV
GLEDVMHEDAVAALKNTYDVVYLKVAKPSNA YLSDSYAPPDITTSYSQHLDNEISHS
SYLGTDYPTAMTPTSPRRYSPVAKDLLGEEDIPREPRRI VIHRGSTGLGFNIVGGED
GEGIFISFILAGGPADLSGELRKGQILSVNGVDLRNASHEQAAIAL KNAGQVTIIAQ
YKPEEYSRFEAKIHDLREQLMNSSLGSGTASLRSNPKRGFYIRALFDYDKTKD CGFL
SQALSFRFGDVLHVIDAGDEEWWQARRVHSDSETDDIGFIPSKRRVERREWSRLKA
KDWGS SSGSQGREDSVLSYETVTQMEVHYARPIIILGPTKDRANDDLLSEFPDKFG
SCVPHTTRPKREYE IDGRDYHFVSSREKMEKDIQAHKFIEAGQYNHLYGTSVQSV
REVAEQGKHCILDVSANAVRRLQ AAHLHPAIFIRPRSLENVLEINKRITEEQARKAFD

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 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

RATKLEQEFTECFSAIVEGDSFEEIYHKV KRVIEDLSGPYIWVPARERL

Endotoxin Less than 0.1 ng/g (1 IEU/g).

Purity Greater than 95% as determined by SEC-HPLC and reducing SDS-PAGE.

Storage Lyophilized protein should be stored at < -20 centigrade, though stable at room temperature for 3 weeks. Reconstituted protein solution can be stored at 4-7 centigrade for 2-7 days. Aliquots of reconstituted samples are stable at < -20 centigrade for 3 months.

Reconstitution Always centrifuge tubes before opening. Do not mix by vortex or pipetting. It is not recommended to reconstitute to a concentration less than 100 µg/ml. Dissolve the lyophilized protein in 1X PBS. Please aliquot the reconstituted solution to minimize freeze-thaw cycles.

GENE INFORMATION

Gene Name [DLG4 discs, large homolog 4 \(Drosophila\) \[Homo sapiens \]](#)

Official Symbol [DLG4](#)

Synonyms DLG4; discs, large homolog 4 (Drosophila); disks large homolog 4; PSD 95; PSD95; SAP 90; SAP90; discs large homolog 4; Tax interaction protein 15; synapse-associated protein 90; postsynaptic density protein 95; post-synaptic density protein 95; SAP-90; FLJ97752; FLJ98574;

Gene ID [1742](#)

mRNA Refseq [NM_001365](#)

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Protein Refseq	NP_001356
MIM	602887
UniProt ID	P78352
Chromosome Location	17p13.1
Pathway	Activation of Ca-permeable Kainate Receptor, organism-specific biosystem; Activation of Kainate Receptors upon glutamate binding, organism-specific biosystem; Activation of NMDA receptor upon glutamate binding and postsynaptic events, organism-specific biosystem; Axon guidance, organism-specific biosystem; CREB phosphorylation through the activation of CaMKII, organism-specific biosystem; CREB phosphorylation through the activation of Ras, organism-specific biosystem; Cocaine addiction, organism-specific biosystem;
Function	protein C-terminus binding; protein binding; scaffold protein binding;

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