

PSD-95 Protein, Rat, Recombinant (His)

General Information

Synonyms:	PSD95;SAP90;Disks large homolog 4;SAP-90;PSD-95;Postsynaptic density protein 95;DLG4;Synapse-associated protein 90
Protein Construction:	Met1-Leu724
Species:	Rat
Expression Host:	E. coli
Accession:	P31016-1
Molecular Weight:	110 KDa (reducing condition)
AA Sequence:	Met1-Leu724

QC Testing

Biological Activity:	Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	Greater than 77% as determined by reducing SDS-PAGE. (QC verified)
Endotoxin:	< 0.1 ng/μg (1 EU/μg) as determined by LAL test.
Formulation:	Lyophilized from a solution filtered through a 0.22 μm filter, containing 50 mM Tris-HCl, 100 mM NaCl, 1 mM EDTA, 1 mM DTT, pH7.5.

Preparation and Storage

Reconstitution:

Reconstitute the lyophilized protein in distilled water. The product concentration should not be less than 100 μg/ml. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.

Stability & Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months.

Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein Background

Disks large homolog 4(DLG4) is a cell membrane protein and it is a member of the membrane-associated guanylate kinase (MAGUK) family. The protein contains 1 guanylate kinase-like domain, 3 PDZ (DHR) domains and 1 SH3 domain. With PSD-93 it is recruited into the same NMDA receptor and potassium channel clusters. These two MAGUK proteins may interact at postsynaptic sites to form a multimeric scaffold for the clustering of

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receptors, ion channels, and associated signaling proteins. DLG4 is the best studied member of the MAGUK-family of PDZ domain-containing proteins. Like all MAGUK-family proteins, its basic structure includes three PDZ domains, an SH3 domain, and a guanylate kinase-like domain (GK) connected by disordered linker regions. It is almost exclusively located in the post synaptic density of neurons, and is involved in anchoring synaptic proteins. Its direct and indirect binding partners include neuroligin, NMDA receptors, AMPA receptors, and potassium channels.

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