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Product Data Sheet

Inhibitors • Screening Libraries • Proteins

PSD95 Protein, Rat (His)

Cat. No.:	HY-P71010			
Synonyms:	Disks large homolog 4; Postsynaptic density protein 95; PSD-95; Synapse-associated protein 90; SAP-90; SAP90; PSD95; DLG4			
Species:	Rat			
Source:	E. coli			
Accession:	NP_062567 (M1-L724)			
Gene ID:	29495			
Molecular Weight:	100-110 kDa			

PROPERTIES

AA Sequence					
An Jequence	MDCLCIVTTK	KYRYQDEDTP	PLEHSPAHLP	ΝQANSPPVIV	
	NTDTLEAPGY	ELQVNGTEGE	MEYEEITLER	GNSGLGFSIA	
	GGTDNPHIGD	DPSIFITKII	PGGAAAQDGR	LRVNDSILFV	
	NEVDVREVTH	SAAVEALKEA	GSIVRLYVMR	RKPPAEKVME	
	IKLIKGPKGL	GFSIAGGVGN	QHIPGDNSIY	VTKIIEGGAA	
	HKDGRLQIGD	KILAVNSVGL	EDVMHEDAVA	ALKNTYDVVY	
	LKVAKPSNAY	LSDSYAPPDI	T T S Y S Q H L D N	EISHSSYLGT	
	D Y P T A M T P T S	PRRYSPVAKD	LLGEEDIPRE	PRRIVIHRGS	
	TGLGFNIVGG	EDGEGIFISF	ILAGGPADLS	GELRKGDQIL	
	SVNGVDLRNA	SHEQAAIALK	ΝΑGQΤVΤΙΙΑ	QYKPEEYSRF	
	EAKIHDLREQ	LMNSSLGSGT	ASLRSNPKRG	FYIRALFDYD	
	K T K D C G F L S Q	ALSFRFGDVL	HVIDAGDEEW	WQARRVHSDS	
	ETDDIGFIPS	KRRVERREWS	R L K A K D W G S S	SGSQGREDSV	
	LSYETVTQME	VHYARPIIIL	GPTKDRANDD	LLSEFPDKFG	
	S C V P H T T R P K	REYEIDGRDY	HFVSSREKME	КDІQАНКГІЕ	
	AGQYNSHLYG	T S V Q S V R E V A	EQGKHCILDV	SANAVRRLQA	
	AHLHPIAIFI	RPRSLENVLE	INKRITEEQA	RKAFDRATKL	
	EQEFTECFSA	IVEGDSFEEI	YHKVKRVIED	LSGPYIWVPA	
	RERL				
Annon 100000	Lyophilized powder.				
Appearance	Lyophilized powder.				
Formulation	Lyophilized from a 0.2 μm filtered solution of 50 mM Tris-HCl, 100 mM NaCl, 1 mM EDTA, 1 mM DTT, pH 7.5.				
Endotoxin Level	<1 EU/µg, determined by LAL method.				
Reconsititution	It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH ₂ O. For long term storage it is				
	recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).				
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is				
	recommended to freeze ali	iquots at -20°C or -80°C for e	extended storage.		

Room temperature in continental US;may vary elsewhere.

DESCRIPTION

Background

PSD95 Protein plays a crucial role in various functions, including PDZ domain binding, enzyme binding, and signaling receptor binding. It serves as a structural component of the postsynaptic density and is involved in processes such as modulation of chemical synaptic transmission, positive regulation of cellular component organization, and postsynapse organization. It is located in different cellular components, including the dendrite, juxtaparanode region of the axon, and postsynaptic density. PSD95 Protein is active in glutamatergic synapses and serves as an anchored component of the postsynaptic density membrane. It colocalizes with the postsynaptic membrane and is identified as a biomarker in Parkinson's disease and temporal lobe epilepsy. In humans, mutations in the orthologous DLG4 gene have been linked to autosomal dominant non-syndromic intellectual disability. [provided by Alliance of Genome Resources, Apr 2022] PSD95 Protein exhibits biased expression in the brain (RPKM 195.0), adrenal gland (RPKM 29.1), and seven other tissues.

Caution: Product has not been fully validated for medical applications. For research use only.

 Tel: 609-228-6898
 Fax: 609-228-5909
 E-mail: tech@MedChemExpress.com

 Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA