Recombinant Human Neuroligin 1/NLGN1 Protein (His

Tag)

Catalog Number: PKSH031062



Note: Centrifuge before opening to ensure complete recovery of vial contents.

Descri	4.0
LIACOPT	ntion
	747 (17)

Synonyms Neuroligin-1;NLGN1;KIAA1070;NL1

Species

HEK293 Cells **Expression Host Sequence** Met 1-Ser 677 NP 055747.1 Accession Calculated Molecular Weight 72.0 kDa 85-95 kDa Observed molecular weight C-His Tag

Properties

Purity > 97 % as determined by reducing SDS-PAGE.

Endotoxin < 1.0 EU per µg of the protein as determined by the LAL method.

Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to **Storage**

-80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots

of reconstituted samples are stable at < -20°C for 3 months.

Shipping This product is provided as lyophilized powder which is shipped with ice packs.

Formulation Lyophilized from sterile PBS, pH 7.4

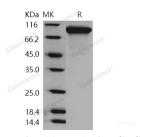
Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as

protectants before lyophilization.

Please refer to the specific buffer information in the printed manual.

Reconstitution Please refer to the printed manual for detailed information.

Data



> 97 % as determined by reducing SDS-PAGE.

Background

Neuroligin 1 (NLGN1) belongs to the type-B carboxylesterase/lipase family; is a synaptic cell-adhesion molecule that is enriched in postsynaptic densities where it may recruit receptors; channels; and signal-transduction molecules to synaptic sites of cell adhesion. Neuroligins consist of five members (NLGN1; NLGN2; NLGN3; NLGN4 and NLGN4Y); which interact with beta-neurexins and this interaction is involved in the formation of functional synapses. The extracellular domain of functional Neuroligin 1 associates as a dimer when analyzed by sedimentation equilibrium. Neuroligin 1 has a unique N-linked glycosylation pattern in the neuroligin family; and glycosylation and its processing modify neuroligin activity. Neuroligin 1 is a potent trigger for the de novo formation of synaptic connections; and it has recently been suggested that it is required for the maturation of functionally competent excitatory synapses. The persistent expression of

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Neuroligin 1 is required for the maintenance of NMDAR-mediated synaptic transmission; which enables normal development of synaptic plasticity and long-term memory in the amygdala of adult animals.

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