

Recombinant Human Neuroligin1, His-tagged

Cat. No. NLGN1-3219H Lot. No. (See product label)

SPECIFICATION

Product Overview Recombinant Human NLGN1 (extracellular domain, Met 1-Val 823), fused with a polyhistidine tag at the C-terminus, was expressed in Human cells.

Species Human

Source Human Cells

ProteinLength 1-823 a.a.

Description Neuroligin-1, also known as NLGN1, is a single-pass type I membrane protein which belongs to the type-B carboxylesterase / lipase family. Neuroligins are cell-adhesion molecules located at the postsynaptic side of the synapse. Neuroligins interact with beta-neurexins and this interaction is involved in the formation of functional synapses. Neurexins and neuroligins are cell adhesion molecules present in excitatory and inhibitory synapses, and they are required for correct neuron network function. These proteins are found at the presynaptic and postsynaptic membranes. Neurexins and neurologins have an essential role in synaptic transmission. Altered neuronal connections during the development of the human nervous system could constitute the basis of the etiology of numerous cases of autism spectrum disorders.

Purity > 97 % as determined by SDS-PAGE

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

Stability Samples are stable for up to twelve months from date of receipt at -70°C

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Predicted N terminal	Gln 46
Molecular Mass	The recombinant human NLGN1 consists of 643 amino acids and predicts a molecular mass of 72 kDa. In SDS-PAGE under reducing conditions, the apparent molecular mass of rhNLGN1 is approximately 85-95 kDa due to glycosylation
Formulation	Lyophilized from sterile PBS , pH 7.4. Normally 5 % - 8 % trehalose and mannitol are added as protectants before lyophilization. Specific concentrations are included in the hardcopy of COA.
Storage	Store it under sterile conditions at -70°C. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles

GENE INFORMATION

Gene Name	NLGN1 neuroligin 1 [Homo sapiens]
Synonyms	neuroligin 1; NLGN1; NL1; KIAA1070; MGC45115; OTTHUMP00000211275; OTTHUMP00000211276; neuroligin-1
Gene ID	22871
mRNA Refseq	NM_014932
Protein Refseq	NP_055747
MIM	600568
UniProt ID	Q8N2Q7
Chromosome	3q26

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Location

Pathway

Cell adhesion molecules (CAMs)

Function

neurexin binding

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