

Recombinant Human NLGN1 (C-6His)

Catalog No: C493

Description	Recombinant Human Neuroligin 1 is produced by our Mammalian expression system and the target gene encoding Gln46-Leu676 is expressed with a 6His tag at the C-terminus.
Source	Human Cells
Alternative name	Neuroligin-1; NLGN1; KIAA1070
Predicted Molecular Weight	71.5kDa
AP Molecular Weight	104kDa, reducing conditions.
Accession No.	Q8N2Q7-2
Formulation	Lyophilized from a 0.2 µm filtered solution of 20mM PB, 150mM NaCl, pH 7.2.
Quality Control	Purity: Greater than 95% as determined by reducing SDS-PAGE. Endotoxin: Less than 0.1 ng/µg (1 IEU/µg) as determined by LAL test.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature listed below.
Storage	Lyophilized protein should be stored at < -20°C, though stable at room temperature for 3 weeks. Reconstituted protein solution can be stored at 4-7°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.
Background	Neuroligin-1 is a single-pass type I transmembrane 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. Neuroligin-1 is a neuronal cell surface protein which is thought to be involved in cell-cell-interactions by forming intercellular junctions through binding to beta- neurexins. It seems to play role in formation or maintenance of synaptic junctions. It triggers the de novo formation of presynaptic structures and may be involved in specification of excitatory synapses.

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