Datasheet for ABIN7317522

Neuroligin 1 Protein (NLGN1) (His tag)

Go to Product page

Overview

Quantity:	100 µg
Target:	Neuroligin 1 (NLGN1)
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This Neuroligin 1 protein is labelled with His tag.

Product Details

Purpose:	Recombinant Human Neuroligin 1/NLGN1 Protein (His Tag)
Sequence:	Met 1-Ser 677
Characteristics:	A DNA sequence encoding the human NLGN1 (NP_055747.1) extracellular domain (Met 1-Ser 677) was expressed, fused with a polyhistidine tag at the C-terminus.
Purity:	> 97 % as determined by reducing SDS-PAGE.
Endotoxin Level:	< 1.0 EU per µg as determined by the LAL method.

Target Details

Target:	Neuroligin 1 (NLGN1)
Alternative Name:	Neuroligin 1/NLGN1 (NLGN1 Products)
Background:	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.

Target Details

	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 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. Synonym: Neuroligin-1, NLGN1, KIAA1070,NL1
Molecular Weight:	72 kDa
NCBI Accession:	NP_055747
Pathways:	Synaptic Membrane, Synaptic Vesicle Exocytosis

Application Details

Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	Please refer to the printed manual for detailed information.
Buffer:	Lyophilized from sterile PBS, pH 7.4
Storage:	4 °C,-20 °C,-80 °C
Storage Comment:	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -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.