

32-7446: Recombinant Human Neuroligin-1/NLGN1 (C-6His)

Gene : NLGN1
Gene ID : 22871
Uniprot ID : Q8N2Q7

Description

Source: Human Cells.
MW :71.5kD.

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. 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.

Product Info

Amount : 10 µg / 50 µg
Content : Lyophilized from a 0.2 µm filtered solution of 20mM PB, 150mM NaCl, pH 7.2.
Storage condition : 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.
Amino Acid : QKLDDVDPLVATNFGKIRGIKKELNNEILGPVIQFLGVPYAAPPTGERRFQPPEPPSPWSDIRNATQFAPVCPQNI
IDGRLPEVMPLPVWFTNNLDVSSYVQDQSEDCLYLNIYVPTEDDIRDSGGPKPVMVYIHGGSYMEGTGNLYDG
SVLASYGNVIVITVNYRLGVLGFLSTGDQAAKNGYLLDLIQLRWTSNIGFFGGDPLRITVFGSGAGGSCVNL
LTLSHYSEGNRWSNSTKGLFQRAIAQSGTALSSWAVSFQPAKYARMLATKVGCVSDTVELVECLQKKPKYKEL
VDQDIQARYHIAFGPVIDGDVIPDDPQILMEQGEFLNYDIMLGVNQGEGLFVENIVDSDDGISASDFDFAVSN
FVDNLYGYPEGKDVLRITIKFMYTDWADRHNPEPTRLTLLALFTDQWVAPAVATADLHNSFGSPTYFYAFYH
HCQTDQVPAWADAAHGDEVYVYLGIPMIGPTELFPCNFSKNDVMSAVVMYWTNFAKTGDPNQVPVQDTKF
IHTKPNRFEEVAWTRYSQKDQLYLHIGLKPVRVKEHYRANKVNLWLELVPHLHNLNDISQYTTTTPSTDTIFR
PTRKNSVPVTSAPFAKQDDPKQPPSPFSVDQRDYSTEVLVDHHHHHH

Application Note

Always centrifuge tubes before opening. Do not mix by vortex or pipetting. It is not recommended to reconstitute to a concentration less than 100 µg/ml. Dissolve the lyophilized protein in ddH₂O. Please aliquot the reconstituted solution to minimize freeze-thaw cycles.

Endotoxin : Less than 0.1 ng/µg (1 IEU/µg) as determined by LAL test.