

Active Recombinant Human Neuroligin 2, His-tagged

Cat. No. NLGN2-5692H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human NLGN2 protein was expressed in Murine myeloma cell line with a C-terminal 6-His tag. Gln15-Ser660.
Species	Human
Source	Mammalian Cells
Protein Length	15-660 a.a.
Description	NLGN2 is one of several type I transmembrane Neuroligins that are expressed on neuronal postsynaptic densities. Neuroligins play an important role in synaptic development and function. Mature human NLGN2 is a 105 kDa protein that consists of a 663 amino acid extracellular domain with a catalytically inactive cholinesterase-like domain, a 21 aa transmembrane segment, and a 137 aa cytoplasmic tail. Within the ECD, human NLGN2 shares 98% aa sequence identity with mouse and rat NLGN2.
Form	Lyophilized from a 0.2 µm filtered solution in PBS.
N-terminal Sequence	Gln15 predicted
Molecular Weight	72 kDa
Activity	Measured by its binding ability in a functional ELISA. When recombinant human NLGN2 is immobilized at 1.5 µg/mL, recombinant human Neurexin1β Fc Chimera

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	binds with an apparent KD < 10 nM.
Endotoxin Level	<1.0 EU per 1 µg of the protein by the LAL method.
SDS-PAGE	85-95kDa, reducing conditions.
Purity	>95%, by SDS-PAGE under reducing conditions and visualized by silver stain.
Reconstitution	400µg/mL in PBS
Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 12 months from date of receipt, -20 to -70°C as supplied. 1 month, 2 to 8°C under sterile conditions after reconstitution. 3 months, -20 to -70°C under sterile conditions after reconstitution.

GENE INFORMATION

Gene Name	NLGN2 neuroligin 2 [Homosapiens]
Official Symbol	NLGN2
Synonyms	NLGN2; neuroligin 2; KIAA1366; neuroligin-2; OTTHUMP00000135277; EC 3.1.1; EC 3.1.1.1
Gene ID	57555
mRNA Refseq	NM_020795
Protein Refseq	NP_065846
MIM	606479

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UniProt ID	Q8NFZ4
Chromosome Location	17p13.2
Pathway	Cell adhesion molecules (CAMs)
Function	NOT carboxylesterase activity; cell adhesionmolecule binding; neurexin family protein binding; receptor activity

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