Active Recombinant Human Neuroligin 2, His-tagged

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

SPECIFICATION

Product Overview	Recombinant Human NLGN2protein was expressed in Murine myeloma cell line with a C-terminal 6-Histag. Gln15-Ser660.
Species	Human
Source	Mammalian Cells
ProteinLength	15-660 a.a.
Description	NLGN2 is one of severaltype I transmembrane Neuroligins that are expressed on neuronal postsynapticdensities. Neuroligins play an important role in synaptic development andfunction. Mature human NLGN2 is a 105 kDa protein that consists of a 663amino acid extracellular domain with a catalytically inactive cholinesterase-likedomain, a 21 aa transmembrane segment, and a 137 aa cytoplasmic tail. Withinthe ECD, human NLGN2 shares 98% aa sequence identity with mouse and ratNLGN2.
Form	Lyophilized from a0.2 μm filtered solution in PBS.
N-terminalSequence	Gln15 predicted
Molecular Weight	72 kDa
Activity	Measuredby its binding ability in a functional ELISA. When recombinant human NLGN2 is immobilized at 1.5 μg/mL, recombinant human Neurexin1β Fc Chimera

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

	binds with an apparent KD < 10 nM.
Endotoxin Level	<1.0 EUper 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 amanual defrost freezer and avoid repeated freeze-thaw cycles. 12 months fromdate of receipt, -20 to -70°C as supplied. 1 month, 2 to 8°C under sterileconditions after reconstitution. 3 months, -20 to -70°C under sterile conditionsafter 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

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

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

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA