

## Active Recombinant Human Neurexin 3

Cat. No. NRXN3-014H Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	A DNA sequence encoding the human NRXN3 isoform 2 (NP_620426.2) extracellular domain (Met 1-Thr 357) was fused with the Fc region of human IgG1 at the C-terminus.
<b>Species</b>	Human
<b>Source</b>	Human
<b>ProteinLength</b>	1-357 a.a.
<b>Description</b>	NRXN3 is a single-pass type I membrane protein which belongs to the neurexin family. It contains one laminin G-like domain. It is a neuronal cell surface protein that may be involved in cell recognition and cell adhesion. Neurexins are a family of proteins that function in the vertebrate nervous system as cell adhesion molecules and receptors.
<b>Form</b>	Lyophilized from sterile PBS, pH 7.4. Normally 5%-8% trehalose and mannitol are added as protectants before lyophilization. Specific concentrations are included in the hardcopy of COA.
<b>Purity</b>	> 95 % as determined by SDS-PAGE
<b>Bio-activity</b>	Measured by the ability of the immobilized protein to support the adhesion of C6 Rat brain glial cells. When 5x10 <sup>4</sup> cells/well are added to NRXN3 coated plates (0.8 µg/mL and 100 µL/well), approximately 30%-50% will adhere specifically after 60 minutes at

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	37°C
<b>Endotoxin</b>	< 1.0 EU per µg of the protein as determined by the LAL method
<b>Stability</b>	Samples are stable for up to twelve months from date of receipt at -70°C.
<b>Predicted N terminal</b>	Ser 36
<b>Molecular Mass</b>	The secreted recombinant human NRXN3/Fc is a disulfide-linked homodimeric protein. The reduced monomer consists of 563 amino acids and predicts a molecular mass of 61.6 kDa. In SDS-PAGE under reducing conditions, the apparent molecular mass of rh NRXN3/Fc monomer is approximately 75-85 kDa due to glycosylation.
<b>Storage</b>	Store it under sterile conditions at -70°C. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

## GENE INFORMATION

<b>Gene Name</b>	NRXN3 neurexin 3 [ Homo sapiens ]
<b>Official Symbol</b>	NRXN3
<b>Synonyms</b>	NRXN3; neurexin 3; C14orf60; KIAA0743; MGC176711; neurexin-3-beta; neurexin III; neurexin III-beta; neurexin III-alpha
<b>Gene ID</b>	9369
<b>mRNA Refseq</b>	NM_138970
<b>Protein Refseq</b>	NP_620426

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<b>MIM</b>	600567
<b>UniProt ID</b>	Q9HDB5
<b>Chromosome Location</b>	14q31
<b>Pathway</b>	Cell adhesion molecules (CAMs)
<b>Function</b>	metal ion binding; receptor activity

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