

Active Recombinant Human Neurexin 3

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

SPECIFICATION

Product Overview	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.
Species	Human
Source	Human
ProteinLength	1-357 a.a.
Description	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.
Form	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.
Purity	> 95 % as determined by SDS-PAGE
Bio-activity	Measured by the ability of the immobilized protein to support the adhesion of C6 Rat brain glial cells. When 5x10 ⁴ 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
Endotoxin	< 1.0 EU per µg of the protein as determined by the LAL method
Stability	Samples are stable for up to twelve months from date of receipt at -70°C.
Predicted N terminal	Ser 36
Molecular Mass	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.
Storage	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

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

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

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