# Active Recombinant Human Neurexin 3

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

## SPECIFICATION

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| **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 5x104 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 predictes 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

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| **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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