# Recombinant Mouse Nrxn1 Protein, Myc/DDK-tagged

**Cat. No.** Nrxn1-4504M **Lot. No.** (See product label)

## SPECIFICATION

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| **Product Overview** | Purified recombinant protein of mouse full-length neurexin I (Nrxn1), with C-terminal MYC/DDK tag, expressed in HEK293T cells. |
| **Species** | Mouse |
| **Source** | HEK293 |
| **Description** | This gene encodes a single-pass type I membrane protein that belongs to the neurexin family. Neurexins are synaptic transmembrane receptors that bind endogenous ligands that include neuroligins, dystroglycan, and neurexophilins. Neurexin complexes are required for efficient neurotransmission and are involved in synaptogenesis. In vertebrates, alternate promoter usage results in multiple isoform classes, of which the alpha and beta classes are the best characterized. In humans, allelic variants in this gene are associated with Pitt-Hopkins-like syndrome-2, while deletions have been associated with autism and schizophrenia. Mouse knockouts display decreased spontaneous and evoked vesicle release resulting in impaired synaptic transmission. In addition, knockout mice show altered social approach, reduced social investigation, reduced locomotor activity, and in males, increased aggression. Alternative splicing and promoter usage result in multiple transcript variants. |
| **Molecular Mass** | 165.8 kDa |
| **Purity** | > 80% as determined by SDS-PAGE and Coomassie blue staining |

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| **Stability** | Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles. |
| **Storage** | Store at -80 centigrade after receiving vials. |
| **Concentration** | >50 μg/mL as determined by microplate BCA method |
| **Storage Buffer** | 25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol. |

## GENE INFORMATION

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| **Gene Name** | Nrxn1 neurexin I [ Mus musculus (house mouse) ] |
| **Official Symbol** | Nrxn1 |
| **Synonyms** | NRXN1; neurexin I; neurexin-1-alpha; Neurexin I-beta; Neurexin-1-beta; neurexin I beta; neurexin I alpha; neurexin I-alpha; alpha-latrotoxin receptor (calcium-dependent); mKIAA0578; 1700062G21Rik; 9330127H16Rik; A230068P09Rik |
| **Gene ID** | 18189 |
| **mRNA Refseq** | NM_020252 |
| **Protein Refseq** | NP_064648 |
| **UniProt ID** | Q9CS84 |

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