

Recombinant Mouse Nrnx1 Protein, Myc/DDK-tagged

Cat. No. Nrnx1-4504M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Purified recombinant protein of mouse full-length neurexin I (Nrnx1), 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

Gene Name	Nrxn1 neurexin I [<i>Mus musculus</i> (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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