

Active Recombinant Human Neurexin I, Fc-tagged

Cat. No. NRXN1-054H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human NRXN1 protein was expressed in Murine myeloma cell line with the Fc part of human IgG1 Pro100-Lys330 (C-terminus) and Ala51-Ser363 (N-terminus).
Species	Human
Source	Mammalian Cells
Protein Length	51-363 a.a.
Description	The alpha and beta forms of Neurexins 1-3 are transmembrane neuronal glycoproteins which are transcribed from each of three NRXN genes that utilize alternate promoters. Like other Neurexins, the extracellular domain (ECD) of NRXN1 contains six LNS domains interspersed with three EGF-like domains, while that of NRXN1 contains only the sixth LNS domain and no EGF-like domains. Mature human NRXN1 is a 70 kDa glycosylated protein with a 313 amino acid (aa) ECD and a 56 aa cytoplasmic domain that contains a motif for binding PDZ scaffolding proteins.
Form	Lyophilized from a 0.2 µm filtered solution in PBS.
N-terminal Sequence	Ala51
Molecular Weight	59.9 kDa
Activity	Measured by its binding ability in a functional ELISA. Biotinylated rrNLGN-

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	1v2immobilized on a streptavidincoated plate at 1 µg/mL (100 µL/well) can bindrhNRXN1/Fc Chimera with an apparent KD < 4 nM.
Endotoxin Level	<1.0 EUper 1 µg of the protein by the LAL method.
SDS-PAGE	85-95kDa, reducing conditions
Purity	>90%,by SDS-PAGE under reducing conditions and visualized by silver stain.
Reconstitution	Reconstituteat 500 µg/mL in sterile PBS
Storage	Use a manualdefrost freezer and avoid repeated freezethaw cycles. 12 months from date of receipt,-20 to -70°C as supplied. 1 month, 2 to 8 °C under sterile conditions after reconstitution.3 months, -20 to -70°C under sterile conditions after reconstitution.

GENE INFORMATION

Gene Name	NRXN1 neurexin 1 [Homosapiens]
Official Symbol	NRXN1
Synonyms	NRXN1; neurexin 1;PTHSL2; SCZD17; Hs.22998; neurexin-1-beta; neurexin I; neurexin I-beta;neurexin I-alpha; neurexin-1-alpha
Gene ID	9378
mRNA Refseq	NM_138735
Protein Refseq	NP_620072
MIM	600565

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UniProt ID	P58400
Chromosome Location	2p16.3
Pathway	Cell adhesion molecules (CAMs)
Function	acetylcholinereceptor binding; calcium channel regulator activity; calcium-dependentprotein binding; cell adhesion molecule binding; neuroligin family proteinbinding; protein binding; receptor binding; receptor activity; metal ionbinding
PDBrendering based on 1c4r.	