

Active Recombinant Human Neurexin 2 Fc-tagged

Cat. No. NRXN2-055H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human NRXN2 protein was expressed in CHO with the Fc part of human IgG1 Pro100-Lys330(C-terminus) and Met1-Thr1566 (N-terminus).
Species	Human
Source	CHO
Protein Length	1-1566 a.a.
Description	NRXN2 is a neuronal type I transmembrane molecule that is encoded by one of three Neurexin genes. Mature human NRXN2 is an approximately 200 kDa N- and O-glycosylated protein with a 1608 amino acid (aa) extracellular domain (ECD) and a 55 aa cytoplasmic domain. The ECD contains six LNS domains interspersed with three EGF-like domains and a juxtamembrane O-glycosylation region. The ECD of human NRXN2 shares 98% and 99% aa sequence identity with mouse and rat NRXN2, respectively. Transcription of the NRXN2 gene from an internal promoter gives rise to NRXN2 which lacks the first five LNS domains and all of the EGF-like domains.
Form	Lyophilized from a 0.2 µm filtered solution in PBS.
N-terminal Sequence	Leu29
Molecular Weight	193 kDa

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Activity	Measured by its binding ability in a functional ELISA. When Recombinant Human NRXN2/NRXN2 Fc Chimera is coated at 2 µg/mL, biotinylated recombinant rat NXPH1 binds with an apparent KD < 10 nM.
Endotoxin Level	<1.0 EU per 1 µg of the protein by the LAL method.
SDS-PAGE	200-250kDa, reducing conditions
Purity	>95%, by SDS-PAGE under reducing conditions and visualized by silver stain.
Reconstitution	Reconstitute at 100 µg/mL in PBS
Storage	Use a manual defrost freezer and avoid repeated freeze-thaw 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	NRXN2 neurexin 2 [Homosapiens]
Official Symbol	NRXN2
Synonyms	NRXN2; neurexin 2; FLJ40892; KIAA0921; neurexin-2-beta; neurexin II; neurexin II-beta; neurexin-2-alpha; neurexin II-alpha
Gene ID	9379
mRNA Refseq	NM_138734
Protein Refseq	NP_620063

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MIM	600566
UniProt ID	P58401
Chromosome Location	11q13
Pathway	Cell adhesion molecules (CAMs)
Function	calcium channel regulator activity; cell adhesion molecule binding; metal ion binding

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