Recombinant Full Length Human NRXN1 Protein, C-Flag-tagged

Cat. No. NRXN1-1316HFL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length Human NRXN1 Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.
Species	Human
Source	Mammalian Cells
Description	This gene encodes a single-pass type I membrane protein that belongs to the neurexin family. Neurexins are cell-surface receptors that bind neuroligins to form Ca(2+)-dependent neurexin/neuroligin complexes at synapses in the central nervous system. This complex is required for efficient neurotransmission and is involved in the formation of synaptic contacts. Three members of this gene family have been studied in detail and are estimated to generate over 3,000 variants through the use of two alternative promoters (alpha and beta) and extensive alternative splicing in each family member. Recently, a third promoter (gamma) was identified for this gene in the 3' region. Mutations in this gene are associated with Pitt-Hopkins-like syndrome-2 and may contribute to susceptibility to schizophrenia.
Form	25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.
Molecular Mass	158.8 kDa
AA Sequence	MGTALLQRGGCFLLCLSLLLLGCWAELGSGLEFPGAEGQWTRFPKWNACCESEMS FQLKTRSARGLVLYF DDEGFCDFLELILTRGGRLQLSFSIFCAEPATLLADTPVNDGA

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	WHSVRIRRQFRNTTLFIDQVEAKWVEV KSKRRDMTVFSGLFVGGLPPELRAAALKL TLASVREREPFKGWIRDVRVNSSQVLPVDSGEVKLDDEPPN SGGGSPCEAGEEGE GGVCLNGGVCSVVDDQAVCDCSRTGFRGKDCSQEDNNVEGLAHLMMGDQGKSK GKE EYIATFKGSEYFCYDLSQNPIQSSSDEITLSFKTLQRNGLMLHTGKSADYVNLA LKNGAVSLVINLGSGA FEALVEPVNGKFNDNAWHDVKVTRNLRQHSGIGHAMVTIS VDGILTTTGYTQEDYTMLGSDDFFYVGGSP STADLPGSPVSNNFMGCLKEVVYKN NDVRLELSRLAKQGDPKMKIHGVVAFKCENVATLDPITFETPESF ISLPKWNAKKTG SISFDFRTTEPNGLILFSHGKPRHQKDAKHPQMIKVDFFAIEMLDGHLYLLLDMGSGT IKIKALLKKVNDGEWYHVDFQRDGRSGTISVNTLRTPYTAPGESEILDLDDELYLGGL PENKAGLVFPTE VWTALLNYGYVGCIRDLFIDGQSKDIRQMAEVQSTAGVKPSCSK ETAKPCLSNPCKNNGMCRDGWNRYVC DCSGTGYLGRSCEREATVLSYDGSMFM KIQLPVVMHTEAEDVSLRFRSQRAYGILMATTSRDSADTLRLE LDAGRVKLTVNLDC IRINCNSSKGPETLFAGYNLNDNEWHTVRVVRRGKSLKLTVDDQQAMTGQMAGDH T RLEFHNIETGIITERRYLSSVPSNFIGHLQSLTFNGMAYIDLCKNGDIDYCELNARFG FRNIIADPVTFK TKSSYVALATLQAYTSMHLFFQFKTTSLDGLILYNSGDGNDFIVVEL VKGYLHYVFDLGNGANLIKGSSN KPLNDNQWHNVMISRDTSNLHTVKIDTKITTQITA GARNLDLKSDLYIGGVAKETYKSLPKLVHAKEGFQ GCLASVDLNGRLPDLISDALFC NGQIERGCEGPSTTCQEDSCSNQGVCLQQWDGFSCDCSMTSFSGPLCN DPGTTY IFSKGGGQITYKWPPNDRPSTRADRLAIGFSTVQKEAVLVRVDSSSGLGDYLELHIH QGKIGVK FNVGTDDIAIEESNAIINDGKYHVVRFTRSGGNATLQVDSWPVIERYPAG RQLTIFNSQATIIIGGKEQG QPFQGQLSGLYYNGLKVLNMAAENDANIAIVGNVRLVG EVPSSMTTESTATAMQSEMSTSIMETTTTLAT STARRGKPPTKEPISQTTDDILVASA ECPSDDEDIDPCEPSSGGLANPTRAGGREPYPGSAEVIRESSST TGMVVGIVAAAA LCILILLYAMYKYRNRDEGSYHVDESRNYISNSAQSNGAVVKEKQPSSAKSSNKNKK N KDKEYYVTRTRPLEQKLISEEDLAANDILDYKDDDDKV
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining.
Stability	Stable for 12 months from the date of receipt of the product under proper storage and

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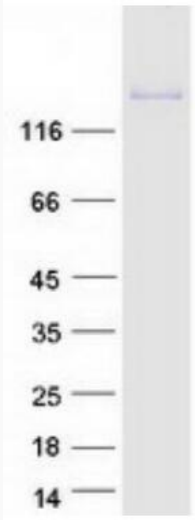
	handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade.
Concentration	>50 ug/mL as determined by microplate BCA method.
Preparation	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Protein Families	Druggable Genome, Transmembrane
Protein Pathways	Cell adhesion molecules (CAMs)
Full Length	Full L.

GENE INFORMATION

Gene Name	NRXN1 neurexin 1 [Homo sapiens (human)]
Official Symbol	NRXN1
Synonyms	PTHSL2; SCZD17; Hs.22998
Gene ID	9378
mRNA Refseq	NM_004801.6
Protein Refseq	NP_004792.1
MIM	600565

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UniProt ID	Q9ULB1



Coomassie blue staining of purified NRXN1 protein.

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