

Product datasheet for TP319376M

Neurexin 1 (NRXN1) (NM_004801) Human Recombinant Protein

Product data:

Product Type: Recombinant Proteins
Description: Recombinant protein of human neurexin 1 (NRXN1), transcript variant alpha1, 100 µg
Species: Human
Expression Host: HEK293T
Expression cDNA Clone or AA Sequence: >RC219376 representing NM_004801
Red=Cloning site Green=Tags(s)

MGTALLQRGGCFLLCLSLLLLCWAELGSGLEFPGAEGQWTRFPKWNACCESEMSFQLKTRSARGLVLYF
 DDEGFCDLELILTRGGRLQLSFSIFCAEPATLLADTPVNDGAWHSVRIRRRQFRNTTLFIDQVEAKWVEV
 KSKRRDMTVFSGLFVGGPLPELRAAALKLTLASVREREPFKGWIRDVRVNSSQVLPVDSGEVKLDDEPPN
 SGGGSPCEAGEEGEGGVCLNNGVCSVDDQAVCDCSRTGFRGKDCSQEDNNVEGLAHLMMGDQGKSKGKE
 EYIATFKGSEYFCYDLSQNPIQSSSDEITLSFKTLQRNGLMLHTGKSADYVNLALKNQAVSLVINLGSQA
 FEALVEPVNGKFNDNAWHDVKVTRNLRQHSGIGHAMVTISVDGILTTTGYTQEDYTM LGSDFFVVGSP
 STADLPGSPVSNFMGCLKEVYKNNVRLLESLRLAKQGDPKMKIHGVAFCENVATLDPITFETPESE
 ISLPKWNAAKTGSGISDFRTEPNGLILFSHGKPRHQKDAKHPQMIKVDFFAIEMLDGHLYLLLDMSGT
 IKIKALLKKVNDGEWYHVDVFQRDGRSGTISVNTLRTPYTAPGESEILDLDDELYLGGLPENKAGLVFPT
 VWTALLNYGYVGCIRDLFIDGQSKDIRQMAEVQSTAGVKPSCSKETAKPCLSNPCKNNGMCRDGNWNRVVC
 DCSGTGYLGRSCREATVLSYDGSFMFKIQLPVMHTEAEDVSLRFRSQRAYGILMATTSRDSADTLRLE
 LDAGRKLVNLDLCIRINCNSKGPETLFAGYNLNDNEWHTVRVRRGKSLKLTVDQDQAMTGQ MAGDHT
 RLEFHNIETGIITERRYLSSVPSNFIGHLQSLTFNGMAYIDLCKNGDIDYCELNARFGFRNIIADPVTFK
 TKSSYVALATLQAYTSMHLFFQFKTSLDGLILYNSGDGNDFIWVELVKGYLHYVFDLGNANLIKSSN
 KPLNDNQWHNVMISRDTSNLHTVKIDTKITTITAGARNLDLKSPLYGGVAKETYKSLPKLVHAKEGFQ
 GCLASVDLNGRLPDLISDALFCNGQIERGCEGPSTTCQEDSCSNQGVCLQQWDGFSDCSMTSFSGPLCN
 DPGTTYIFSKGGGQITYKWPPNDRPSTRADRLAIGFSTVQKEAVLVRVDSSSGLGDYLELHIHQKIGVK
 FNVGTDIAIEESNAIINDGKYHWRFRTRSGGNATLQVDSWPVIERYPAGRQLTIFNSQATIIGGKEQG
 QPFQGLSGLYNGLVNMAAENDANIAIVGNVRLVGEVPSSMTTESTATAMQSEMSTSIMETTTTLAT
 STARRGKPPTKEPISQTTDDILVASAECPSDDEDIDPCEPSSGGLANPTRAGGREPYPGSAEVIRESSST
 TGMVVGIVAAAAALCILLIYAMYKYRNRDEGSYHVDESRNYISNSAQSNQAVVKEKQPSSAKSSNKNKKN
 KDKEYVV

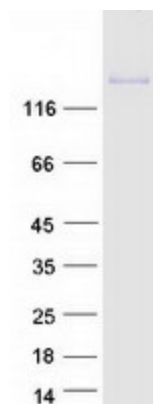
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag: C-Myc/DDK



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Predicted MW:	158.8 kDa
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
Preparation:	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Note:	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
Storage:	Store at -80°C.
Stability:	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
RefSeq:	NP_004792
Locus ID:	9378
UniProt ID:	Q9ULB1
RefSeq Size:	9368
Cytogenetics:	2p16.3
RefSeq ORF:	4431
Synonyms:	Hs.22998; PTHSL2; SCZD17
Summary:	<p>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. [provided by RefSeq, Aug 2016]</p>
Protein Families:	Druggable Genome, Transmembrane
Protein Pathways:	Cell adhesion molecules (CAMs)

Product images:

Coomassie blue staining of purified NRXN1 protein (Cat# [TP319376]). The protein was produced from HEK293T cells transfected with NRXN1 cDNA clone (Cat# [RC219376]) using MegaTran 2.0 (Cat# [TT210002]).