

## Product datasheet for TP319376

### 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, 20 µg  
**Species:** Human  
**Expression Host:** HEK293T  
**Expression cDNA Clone or AA Sequence:** >RC219376 representing NM\_004801  
Red=Cloning site Green=Tags(s)

MGTALLQRGGCFLLCLSLLLLCWAELGSGLEFPGAEGQWTRFPKWNACCSEMSFQLKTRSARGLVLYF  
 DDEGFCDLELILTRGGRLQLSFSIFCAEPATLLADTPVNDGAWHSVRIRRRFRNTTLFIDQVEAKWVEV  
 KSKRRDMTVFSGLFVGGPLPELRAAALKLTLASVREREPFKGWIRDVRVNSSQVLPVDSGEVKLDDEPPN  
 SGGGSPCEAGEEGEGGVCLNGGVCSVDDQAVCDCSRTGFRGKDCSQEDNNVEGLAHLMMGDQGKSKGKE  
 EYIATFKGSEYFCYDLSQNPIQSSSDEITLSFKTLQRNGLMLHTGKSADYVNLALKNQAVSLVINLGSQA  
 FEALVEPVNGKFNDNAWHDVKVTRNLRQHSGIGHAMVTISVDGILTTTGYTQEDYTM LGSDDFVVGSP  
 STADLPGSPVSNFMGCLKEVYKNNDRLELSRLAKQGDPKMKIHGVVAFKCNVATLDPITFETPESE  
 ISLPKWNAAKTGSGISDFRTEPNGLILFSHGKPRHQKDAKHPQMIKVDFFAIEMLDGHLYLLLDMSGT  
 IKIKALLKKVNDGEWYHVDVQDRDGRSGTISVNTLRTPYTAPGESEILDDELYLGGLPENKAGLVFPT  
 VWTALLNYGYVGCIRDLFIDGQSKDIRQMAEVQSTAGVKPSCSKETAKPCLSNPCKNNGMCRDGNWNRVC  
 DCSGTGYLGRSCREATVLSYDGSFMFKIQLPVMHTEAEDVSLRFRSQRAYGILMATTSRDSADTLRLE  
 LDAGRKLVNLDCIRINCNSKGPETLFAGYNLNDNEWHTVRVRRGKSLKLTVDQDQAMTGQ MAGDHT  
 RLEFHNIETGIITERRYLSSVPSNFIGHLQSLTFNGMAYIDLCKNGDIDYCELNARFGFRNIADPVTFK  
 TKSSYVALATLQAYTSMHLFFQFKTSLDGLILYNSGDGNDFIWVELVKGYLHYVFDLGNANLIKSSN  
 KPLNDNQWHNVMISRDTSNLHTVKIDTKITTITAGARNLDLKSPLYGGVAKETYKSLPKLVHAKEGFQ  
 GCLASVDLNGRLPDLISDALFCNGQIERGCEGPSTTCQEDSCSNQGVCLQQWDGFSCDCSMTSFSGLPCN  
 DPGTTYIFSKGGGQITYKWPPNDRPSTRADRLAIGFSTVQKEAVLVRVDSSSGLGDYLELHIHQKIGVK  
 FNVGTDDIAIEESNAIINDGKYHWRFRTRSGGNATLQVDSWPVIERYPAGRQLTIFNSQATIIGGKEQG  
 QPFQGLSGLYINGLKVNLMAAENDANIAIVGNVRLVGEVPSSMTTESTATAMQSEMSTSIMETTTTLLAT  
 STARRGKPPTKEPISQTTDDILVASAECPSDDEDIDPCEPSSGGLANPTRAGGREPYPGSAEVIRESSST  
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 KDKEYVV

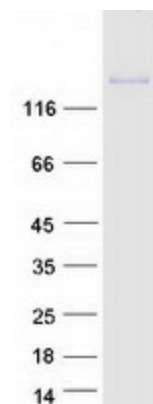
TRRPLEQKLISEEDLAANDILDYKDDDDKV

**Tag:** C-Myc/DDK



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