

Product Information

MemDX™ Membrane Protein Human NRXN1 (Neurexin 1) Full Length

Cat. No.: **MPC0675K**

This product is for research use only and is not intended for diagnostic use.

This product is a 161.8 kDa Human NRXN1 membrane protein expressed in HEK293. The protein is for research use only and is not approved for use in humans or in clinical diagnosis.

Product Specifications

Host Species

Human

Target Protein

NRXN1

Protein Length

Full length

Protein Class

Transporter

Molecular Weight

161.8 kDa

TMD

1

Sequence

MGTALLQRGGCFLCLSLLLGCAELGSGLEFPGAEGQWTRFPKWNACC
EEMSFQLKTRSARGLVLYFDDGFCDFLELILTRGGRLQLSFSIFCAEP
ATLLADTPVNDGAWHSVRIRQRNTTLFIDQVEAKWVEVSKRRDMTVF
SGLFVGGLPPELRAAALKLTASVREREPFKGWIRDVRVNSSQVLPVDSG
EVKLDDEPPNSGGGSPCEAGEEGEGGVCLNGGVCSVVDDQAVCDCSRTGF
RGKDCSQEDNNVEGLAHLMMGDQGKSKGKEEYIATFKGSEYFCYDLSQNP
IQSSSDEITLSFKTLQRNGLMLHTGKSADYVNLALKNGAVSLVINLGSGA
FEALVEPVNGKFNDNAWHDVKVTRNLRQHSGIGHAMVTISVDGILTTTGY
TQEDYTMLGSDDFFYVGGSPSTADLPGSPVSNNFMGCLKEVVYKNNDVRL
ELSRQAKQGDPMKIHGVVAFKCEENVATLDPITFETPESFISLPKWNACK
TGSISDFRTEPNGLILFSHGKPRHQDAKHPQMIKVDFFAIEMLDGHL
YLLDMGSGTIKIKALLKKVNDGEWYHVDVFQRDGRSGTISVNTLRTPYTA
PGESEILDDELTYLGGLPENKAGLVFPTEVWTALLNYGYVGCIRDLFID
GQSKDIRQMAEVQSTAGVKPSCSKETAKPCLSNPCKNNGMCRDGNRYVC
DCSGTGYLGRSCEREATVLSYDGSFMFKIQLPVVMHTEAEDVSLRFRSQR
AYGILMATTSRDSADTLRLELDAGRVLKLTVNLDLCIRINCNSSKGPETLFA
GYNLNDNEWHTVRVVRGKSLKLTVDQDQAMTGQMAGDHTRLEFHNIETG
IITERRYLSVPSNFIHGLQSLTFNGMAYIDLCKNGDIDYCELNARFGFR
NIIADPVTFKTKSSYVALATLQAYTSMHLFFQFKTSLDGLILYNSGDGN
DFIVVELVKGYLHYVFDLGNGANLIKSSNKPLNDNQWHNVMISRDTSNL
HTVKIDTKITTQITAGARNLDLKSPLYIGGVAKETYKSLPKLVHAKGEFQ

GCLASVDLNGRLPDLISDALFCNGQIERGCEGPSTTCQEDSCSNQGVCLQ
QWDGFSCDCSMTSFSGPLCNDPGTTYIFSKGGGQITYKWPPNDRPSTRAD
RLAIGFSTVQKEAVLVRVDSSSGLGDYLELHIHQGKIGVKFNVGTDDIAI
EESNAIINDGKYHVVRFTRSGGNATLQVDSWPVIERYPAGRQLTIFNSQA
TIIIGGKEQGQPFQGLSGLYYNGLKVLNMAAENDANIAIVGNVRLVGEV
PSSMTTESTATAMQSEMSTSIMETTTTLATSTARRGKPPTKEPISQTTDD
ILVASAECPSDDDEDIDPCEPSSGGLANPTRAGGREPYPGSAEVIRESSST
TGMVVGIVAAAAALCILILLYAMYKYRNRDEGSYHVDESRYISNSAQSNQ
AVVKEKQPSSAKSSNKNKKNKDKEYYV

Product Description

Expression Systems

HEK293

Tag

Based on specific requirements

Protein Format

Detergent or based on specific requirements

Form

Liquid

Storage

Aliquot and store at -20°C or lower. For long term storage, we recommend to store at -70°C or lower. Avoid freeze/thaw cycles.

Target

Target Protein

NRXN1

Full Name

Neurexin 1

Introduction

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.

Alternative Names

PTHSL2; SCZD17; Hs.22998; neurexin I; NRXN1; Neurexin 1

Gene ID

[9378](#)

UniProt ID

[Q9ULB1](#)