

Product Information

MemDX™ Membrane Protein Human NRG3 (Neuregulin 3) Full Length

Cat. No.: **MPC2184K**

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

This product is a 77.9 kDa Human NRG3 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

NRG3

Protein Length

Full length

Protein Class

Growth factor

Molecular Weight

77.9 kDa

TMD

1

Sequence

MSEGAAAASPPGAASAAAASAEEGTAAAAAAAAGGGPDGGGEGAAEPPR
ELRSCDCIWNRRQQTWLCVVPLFIGFIGLGLSLMLLKWIVVGSVKEYVPT
DLVDSKGMGQDPFFLSKPSSFPAKAMETTTTTTTSTTSPATPSAGGAASSRT
PNRISTRLLTTITRAPTRFPGHRVPIRASPRSTTARNTAAPATVPSTTAPF
FSSSTLGSRPPVPGTPSTQAMPSWPTAAYATSSYLHDSTPSWTLSPFQDA
ASSSSSSSSSATTTTTPETSTSPKFHTTTERSEHFKPCRDKDLAYCLN
DGEFCVIETLTGSHKHCRCKEGYQGVRCQDQFLPKTDSILSDPTDHLGIEF
MESEEVYQRQVLSISCIIFGIVIVGMFCAAFYFKSKKQAKQIQEQLKVPQ
NGKSYSLKASSTMAKSENLVKSHVQLQNYSKVERHPVTALEKMMESSFVG
PQSFPEVPSPDRGSQSVKHHRLSSCCSPGQRSGMLHRNAFRRTPPSPRS
RLGGIVGPAYQQLEESRIPDQDTIPCQGIEVRKTISHLPIQLWCVERPLD
LKYSSSLKLTQRNTSINMQLPSRETNPYFNSLEQKDLVGYSSTRASSVPI
IPSVGLEETCLQMPGISEVKSIIKWCNSYSADVNVNIPVSDCLIAEQQE
VKILLETVQEQRILTDAARSEYELASVETEDSASENTAFLPLSPTAKS
EREAQFVLRNEIQRDSALTK

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 -72°C or lower. Avoid freeze/thaw cycles.

Target

Target Protein

NRG3

Full Name

Neuregulin 3

Introduction

This gene is a member of the neuregulin gene family. This gene family encodes ligands for the transmembrane tyrosine kinase receptors ERBB3 and ERBB4 - members of the epidermal growth factor receptor family. Ligand binding activates intracellular signaling cascades and the induction of cellular responses including proliferation, migration, differentiation, and survival or apoptosis. This gene encodes neuregulin 3 (NRG3). NRG3 has been shown to activate the tyrosine phosphorylation of its cognate receptor, ERBB4, and is thought to influence neuroblast proliferation, migration and differentiation by signalling through ERBB4. NRG3 also promotes mammary differentiation during embryogenesis. Linkage studies have implicated this gene as a susceptibility locus for schizophrenia and schizoaffective disorder. Alternative splicing results in multiple transcript variants encoding distinct isoforms. Additional transcript variants have been described but their biological validity has not been verified.

Alternative Names

NRG3; HRG3; pro-NRG3; pro-neuregulin-3, membrane-bound isoform; neuregulin-3-like polypeptide; Neuregulin 3

Gene ID

[10718](#)

UniProt ID

[P56975](#)