

Recombinant Human NRG2

Cat. No. NRG2-266H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human NRG2, encoding Human NRG2 full-length ORF (AAI66615.1), was expressed in Wheat germ.
Species	Human
Source	Wheat Germ
Description	<p>This gene encodes a novel member of the neuregulin family of growth and differentiation factors. Through interaction with the ERBB family of receptors, this protein induces the growth and differentiation of epithelial, neuronal, glial, and other types of cells. The gene consists of 12 exons and the genomic structure is similar to that of neuregulin 1, another member of the neuregulin family of ligands. The products of these genes mediate distinct biological processes by acting at different sites in tissues and eliciting different biological responses in cells. This gene is located close to the region for demyelinating Charcot-Marie-Tooth disease locus, but is not responsible for this disease. Alternative transcript variants encoding distinct isoforms have been described.</p>
Form	Liquid
Molecular Mass	93.8 kDa
AA Sequence	<p>MRQVCCSALPPPPLEKGRCSSYSDSSSSSSSERSSSSSSSSSESGSSSRSSSNSSI SRPAAPPEPRPQQQPQPRSPAARRAAARSRAAAAGGMRRDPAPGFSMLLFGVSLA CYSPLKSVQDQAYKAPVVVEGKVQGLVPAGGSSSNSTREPPASGRVALVKVLDK</p>

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WPLRSGGLQREQVISVGSCVPLERNQRYIFFLEPTEQPLVFKTAFAPLDTNGKNLKK
 EVGKILCTDCATRPKLKKMKSQTGQVGEKQSLKCEAAAGNPQPSYRWFKDGKELN
 RSRDIRIKYGNRKNLQFNKVKVEDAGEYVCEAENILGKDTVGRGLYVNSVSTTL
 SSWGSHARKCNETAKSYCVNGGVCYYIEGINQLSCKCPVGYTGDRCCQFAMVNF
 KHLGFELKEAEELYQKRVLITGICVALLVVGIVCVVAYCKTKKQRKQMHHLRQNM
 CPAHQNRSLANGPSPRLDPEEIQMADYISKNPATDHVIRRETETTFSGSHSCSPS
 HHCSTATPTSSHRHESHTWLSLSESLTSDSQSGIMLSSVGTSKCNSPACVEARAR
 RAAAYNLEER RRATAPPYHDSVDSLDRSPHSERYVSALTTTPARLSPVDFHYSLATQ
 VPTFEITSPNSAHAVSLPPAAPISYRLAEQQPLL RHPAPPGGPGPGPGPGGADM
 QRSYDSYYYPAAGPGPRRGTCALGGSGLSLPASPFRIPEDDEYETTQECAPPPPPR
 PRARGASRRTSAGPRRWRRSRLNGLAAQRARAARDLSLSLSSGSGGGSASASDDD
 ADDADGALAAESTPFLGLRGAHDALRSDSPPLCPAADSRTYYSLDSHSTRASSRHS
 RGPPPRAKQDSAPL

Storage Store at -80°C. Aliquot to avoid repeated freezing and thawing.

Storage Buffer 25 mM Tris-HCl of pH8.0 containing 2% glycerol.

GENE INFORMATION

Gene Name [NRG2 neuregulin 2 \[Homo sapiens \]](#)

Official Symbol NRG2

Synonyms NRG2; neuregulin 2; pro-neuregulin-2, membrane-bound isoform; divergent of neuregulin 1; Don 1; HRG2; neural and thymus derived activator for ErbB kinases; NTAK; pro-NRG2; divergent of neuregulin-1; neural- and thymus-derived activator for ErbB kinases; DON1;

Gene ID [9542](#)

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mRNA Refseq	NM_001184935
Protein Refseq	NP_001171864
MIM	603818
UniProt ID	O14511
Chromosome Location	5q23-q33
Pathway	Downregulation of ERBB2:ERBB3 signaling, organism-specific biosystem; ErbB receptor signaling network, organism-specific biosystem; ErbB signaling pathway, organism-specific biosystem; ErbB signaling pathway, organism-specific biosystem; ErbB signaling pathway, conserved biosystem; ErbB2/ErbB3 signaling events, organism-specific biosystem; GRB2 events in ERBB2 signaling, organism-specific biosystem;
Function	ErbB-3 class receptor binding; epidermal growth factor receptor binding; epidermal growth factor-activated receptor activity; growth factor activity; receptor binding;

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