Recombinant Human Neuregulin 2

Cat. No. NRG2-2695H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human Neuregulin 2 is expressed in*E. coli.*MW= 44kDa.
Species	Human
Source	E.coli
Description	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.
Species Reactivity	Human, Mouse.
Applications	Western Blotting (as a positive control); Stimulation of Tyrosine Kinase Activity of Erbs(1nM; More potent than Heregulin α1); Cell Proliferation and Differentiation (1nM)(For 1nM concentration, dilute 1μg of stock protein to 33 ml of culture medium).
Supplied As	Purified Heregulin β1 is packaged in physiological saline, pH 7.4, with 0.2% BSA.

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

	Note that this product is supplied without Sodium azide or any other preservative.
Storage	Store vial at -20°C to -70°C. When stored at the recommended temperature, this protein is stable for 24 months.

GENE INFORMATION

Gene Name	NRG2 neuregulin 2 [Homo sapiens]
Synonyms	NRG2; neuregulin 2; DON1; HRG2; NTAK; OTTHUMP00000198728; divergent of neuregulin-1; neural- and thymus-derived activator for ErbB kinases; pro-NRG2; pro-neuregulin-2, membrane-bound isoform
Gene ID	9542
mRNA Refseq	NM_001184935
Protein Refseq	NP_001171864
MIM	603818
UniProt ID	O14511
Chromosome Location	5q23-q33
Pathway	ErbB signaling pathway
Function	growth factor activity; receptor binding

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