

Active Recombinant Human NRG4

Cat. No. NRG4-525H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human Neuregulin-4 EGF domain is a disulfide-linked monomeric protein consisting of 62 amino acid residue subunits, and migrates as an approximately 7 kDa protein under non-reducing and reducing conditions in SDS-PAGE. Optimized DNA sequence encoding Human Neuregulin-4 EGF domain was expressed in E. coli.
Species	Human
Source	E.coli
Description	Neuregulins (NDF, heregulin, GGF ARIA, or SMDF) are EGF- like growth and differentiation factors that signal through tyrosine kinase receptors of the ErbB family. The ErbB2 and ErbB4 receptors cooperate in transmission of neuregulin-1 signals in the heart, whereas ErbB2 and ErbB3 cooperate in neural crest cells.
Form	Lyophilized from a 0.2 μ filtered 20 mM phosphate buffer, pH 6.0.
Bio-activity	The ED50 was determined by the phosphorylation of ErbB2 and ErbB4 receptors in CHO cells, and was found to be <3ng/ml, corresponding to a specific activity of 3x 10 ⁵ Units/mg.
Molecular Mass	7 kDa
AA Sequence	HEEPCGPSHKSFCLNGGLCYVIPTIPSPFCRCVENYTGARCEEVFLPGSSIQTksNL FEAF

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Endotoxin	<0.1 ng/g (1 EU/g), using the LAL gel clot method.
Purity	≥96% by SDS-PAGE and HPLC
Stability	The lyophilized protein is stable for at least 2 years from date of receipt when stored at -20 centigrade. Upon reconstitution, store in working aliquots at +4 centigrade for up to one month, or at -20 centigrade for up to six months, in the presence of a carrier protein. Avoid repeated freeze/thaw cycles.
Reconstitution	Reconstitute at 0.1-1.0 mg/ml in distilled water. This solution can then be diluted into other buffers. To maximize product collection from vial surface, vortex briefly and then spin down to recollect the liquid.

GENE INFORMATION

Gene Name	NRG4 neuregulin 4 [Homo sapiens]
Official Symbol	NRG4
Synonyms	HRG4; pro-neuregulin-4, membrane-bound isoform; heregulin 4; pro-NRG4
Gene ID	145957
mRNA Refseq	NM_138573
Protein Refseq	NP_612640
MIM	610894
UniProt ID	Q8WWG1

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Chromosome Location	15q24.2
Pathway	Adaptive Immune System, organism-specific biosystem; DAP12 interactions, organism-specific biosystem; ErbB receptor signaling network, organism-specific biosystem
Function	growth factor activity; protein binding; receptor binding

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