

Active Recombinant Human NRG4 Protein

Cat. No. NRG4-07H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human Neuregulin-4 EGF domain was expressed in Escherichia coli.
Species	Human
Source	E.coli
Description	The neuregulins, including NRG4, activate type-1 growth factor receptors (see EGFR; MIM 131550) to initiating cell-to-cell signaling through tyrosine phosphorylation.
Form	Lyophilized
Bio-activity	The ED(50) was determined by the phosphorylation of ErbB2 and ErbB4 receptors in CHO cells, and was found to be < 3 ng/mL, corresponding to a specific activity of x Units/mg.
Molecular Mass	Recombinant human Neuregulin-4 EGF domain is a 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.
AA Sequence	MPTDHEEPCGPSHKSFCLNGGLCYVIPTIPSPFCRCVENYTGARCEEVFLPGSSIQTKSNLFEAFVALAVLVTLIIGAFYFLCRKGHFQRASSVQYDINLVETSSTSAHHSHEQH
Endotoxin	Endotoxin content was assayed using a LAL gel clot method. Endotoxin level was found to be less than 1 ng/μg (1 EU/μg).

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Purity	>96%, as determined by SDS-PAGE and HPLC
Usage	This cytokine product is for research purposes only. It may not be used for therapeutics or diagnostic purposes.
Storage	The lyophilized protein is stable for at least years from date of receipt at -20 centigrade. Upon reconstitution, this cytokine can be stored in working aliquots at -20 centigrade for six months, with a carrier protein without detectable loss of activity. Avoid repeated freeze/thaw cycles.
Storage Buffer	Recombinant Neuregulin-4 was lyophilized from 0.2 µm filtered PB, pH7.0.
Reconstitution	A quick spin of the vial followed by reconstitution in distilled water to a concentration not less than 1 mg/mL. This solution can then be diluted into other buffers.

GENE INFORMATION

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

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UniProt ID

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