

Active Recombinant Human NRG4 Protein, Tag Free

Cat. No. NRG4-1021H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Optimized DNA sequence encoding 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.
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.
Molecular Mass	7 kDa
AA Sequence	MPTDHEEPCGPSHKSFCLNGGLCYVIPTIPSPFCRCVENYTGARCEEVFLPGSSIQT KSNLFEAFVALAVLVTLIIGAFYFLCRKGHFQRASSVQYDINLVETSSTSAHHSHEQH
Endotoxin	Less than 0.1 ng/μg (1 EU/μg).
Purity	>96%, as determined by SDS-PAGE and HPLC
Notes	This cytokine product is for research purposes only. It may not be used for therapeutics or diagnostic purposes.

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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 2 to 8 centigrade for one month, or 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 a 0.2 µm filtered mM PB, pH 7.0.
Reconstitution	A quick spin of the vial followed by reconstitution in distilled water to a concentration not less than 0.1 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; pro-neuregulin-4, membrane-bound isoform; HRG4; pro-NRG4; heregulin 4; DKFZp779N0541; DKFZp779N1944
Gene ID	145957
mRNA Refseq	NM_138573
Protein Refseq	NP_612640
MIM	610894
UniProt ID	Q8WWG1

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