

Neuregulin-4 Active Protein | NRG4 active protein

Human Neuregulin-4 Recombinant

CATALOG #	HOST
AAA14428	E Coli (Host protein expression may be lot-specific and can be subject to change during production, including bulk orders)

PRODUCT SYNONYMS

Neuregulin-4; Human Neuregulin-4 Recombinant; egf; neuregulin; nrg4; nrg-4; heregulin; hrg; NRG4 active protein

PRODUCT SPECIFICATIONS

Host	E Coli (Host protein expression may be lot-specific and can be subject to change during production, including bulk orders)
Purity/Purification	>96% as determined by SDS-PAGE and HPLC
Form/Format	Recombinant Neuregulin-4 was lyophilized from a 0.2 um filtered 20mM PB, pH 6.0.
Host Note	Optimized DNA sequence encoding Human Neuregulin-4 EGF domain was expressed in Escherichia Coli.
Biological Activity:	The ED(50) 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.
Presentation	Recombinant Neuregulin-4 was lyophilized from a 0.2 f.lm filtered 20mM PB, pH 6.0.
Endotoxin	Endotoxin content was assayed using a LAL gel clot method. Endotoxin level was found to be less than 0.1 ng/ug (1EU/ug).
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.
Preparation and Storage	The lyophilized protein is stable for at least 2 years from date of receipt at -20 degree C. Upon reconstitution, this cytokine can be stored in working aliquots at 2 degree - 8 degree C for one month, or at -20 degree C for six months, with a carrier protein without detectable loss of activity. Avoid repeated freeze/thaw cycles.

ADDITIONAL INFORMATION

Related Product Information for NRG4 active protein	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.
Product Categories/Family for NRG4 active protein	Cytokines
References	expression of neuregulin 4 splice variants in normal human tissues and prostate cancer and their effects on cell motility .<i>Endocr. Relat. Cancer</i>, Dec 2010; 18: 39 - 49.

NCBI AND UNIPROT INFORMATION

NCBI GI #	20070380
NCBI GeneID	145957
NCBI Accession #	NP_612640.1
NCBI GenBank Nucleotide #	NM_138573.3

UniProt Accession #	Q8WWG1 ; A6NIE8 ; Q0P6N4 ; Q0P6N5 ; Q0P6N6 ; Q68D87 ; Q7Z663
Molecular Weight	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.
NCBI Official Full Name	pro-neuregulin-4, membrane-bound isoform
UniProt Protein Name	Pro-neuregulin-4, membrane-bound isoform
UniProt Gene Name	NRG4
UniProt Synonym Gene Names	Pro-NRG4; NRG-4
UniProt Entry Name	NRG4_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/e-coli-nrg4-active-protein/neuregulin-4/14428>