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Recombinant bovine/porcine NRG-1 protein (Qk115-FG)



Type: Food grade proteins

Available for purchase: Unit Size (µg): 25, 50, 100, 500, 1000

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Product Information

Bovine/porcine NRG-1 protein (neuregulin 1) is frequently used in the maintenance of pluripotent stem cells. In addition to its widespread use in stem cell culture media, NRG-1 (also known as heregulin-β1 , HRG-1) has essential roles in vivo including in nervous system, cardiac, and mammary gland development; cancer biology and neurological disorders.

Qkine high quality food grade NRG-1 is the 7.5 kDa bioactive domain of human NRG-1, comprised of the β isoform of the EGF-like domain of NRG-1 (HRG1-B1). This NRG-1 protein monomer is animal origin-free (AOF) and carrier-protein free (CF).

Alternative protein names

Neuregulin1 (NRG1-β1), Neu differentiation factor (rat), Heregulin, HRG, HRG1-β1, Breast cancer cell differentiation factor p45, ARIA (Acetylcholine, Receptor Inducing Activity), glial growth factor, NRG1, NRG 1

Molecular weight

7.5 kDa

Protein Uniprot number

High quality bovine/porcine NRG-1 protein (Uniprot: A3KN34)

Species reactivity

- bovine
- porcine

Product Information

- High quality food grade recombinant protein
- >98%, by SDS-PAGE quantitative densitometry
- Animal origin-free (AOF) and carrier protein-free
- Expressed in *E. coli*
- Manufactured in the UK under a food manufacturing HACCP regime
- Lyophilized from acetonitrile, TFA

Reconstitution instructions

- Resuspend in sterile-filtered water at >50 µg/ml

Featured applications

- Cellular agriculture and cultivated meat cell culture media optimization
- Cellular agriculture process development
- Serum-free media development

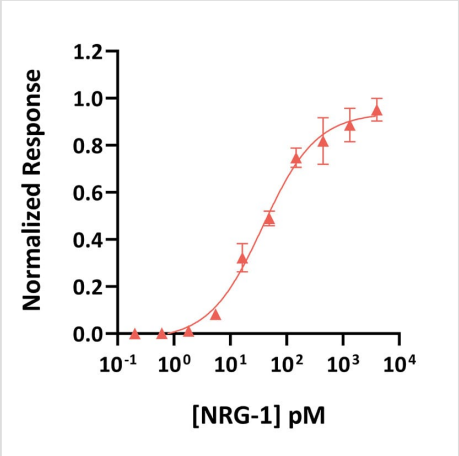
Further quality assays

- Mass spectrometry: single species with expected mass
- Recovery from stock vial: >95%
- Endotoxin: <0.05 EU/µg protein
- Full raw materials traceability, allergen analysis, CoO, CoA, beta-lactam-free and animal origin-free certification available

Scientific Information

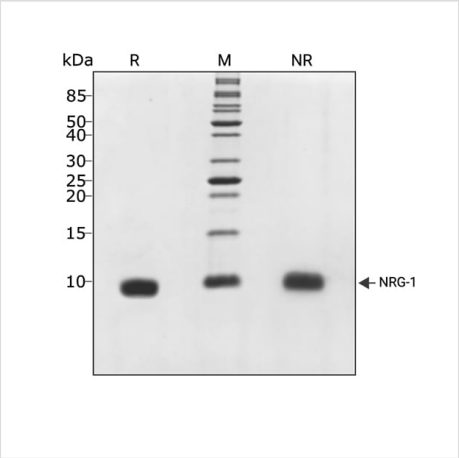
Bioactivity

NRG-1 activity was determined using the Promega serum response element luciferase reporter assay in transfected MCF-7 cells. Cells were treated in triplicate with a serial dilution of NRG-1 for 4 hours. Firefly luciferase activity was measured and normalized to the control Renilla luciferase activity. EC50 = 37.9 pM (0.28 ng/ml).



Purity

NRG-1 migrates as a single band at 7.5 kDa in non-reducing (NR) conditions and upon reduction (R). No contaminating protein bands are visible. Purified recombinant protein (3 µg) was resolved using 18% w/v SDS-PAGE in reduced (+β-mercaptothanol, R) and non-reduced (NR) conditions and stained with Coomassie Brilliant Blue R250.



Original product page: https://qkine.com/product/recombinant-bovine-porcine-nrg-1-protein-qk115-fg/

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