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Recombinant bovine HGF NK1 protein (Qk060-FG)



Type: Food grade proteins

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

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Product Information

Recombinant bovine HGF NK1 protein is a potent, high-purity NK1 isoform of bovine hepatocyte growth factor (HGF). Bovine HGF differs from human HGF at several key amino acid residues that are predicted to affect bioactivity and receptor binding. Use of species-specific HGF growth factor will facilitate media optimization for cellular agriculture (cultivated meat) and veterinary applications. Also available is Qk061-FG porcine HGF (NK1). The highly scalable animal-free manufacture and enhanced bioactivity make this suitable for chemically-defined media and reproducible scale-up.

Qk060-FG is a 20 kDa naturally occurring isoform of HGF, animal origin-free and carrier-protein free.

Alternative protein names

Hepatopoietin-A, Scatter factor, SF, HGF (NK1), HGFNK1, HGF(NK1)

Molecular weight

20 kDa

Protein Uniprot number

High purity recombinant bovine HGF protein (Uniprot: F1MZD6)

Species reactivity

- bovine

Product Information

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

Reconstitution instructions

- Resuspend in 10 mM HCl (Reconstitution solution A) at >50 µg/ml

Featured applications

- Cellular agriculture and cultivated meat cell culture media optimization
- Differentiation of iPSCs to hepatocyte-like cells
- Culture of bovine (cow) muscle stem cells
- Proliferation of fibroblasts and smooth muscle cells

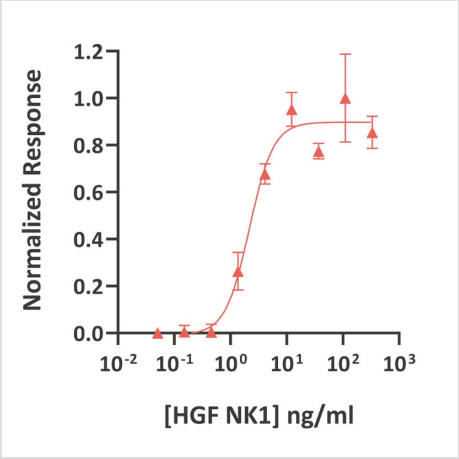
Further quality assays

- 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

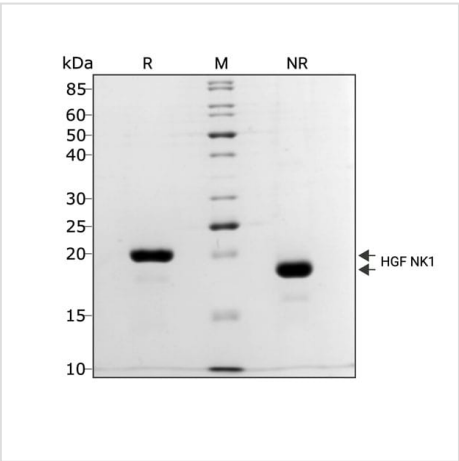
Bioactivity

HGF NK1 activity was determined using the Promega serum response element luciferase reporter assay (*) in HEK293T cells. EC50 = 2.0 ng/ml (96 pM). Cells were treated in triplicate with a serial dilution of HGF NK1 for 3 hours. Firefly luciferase activity was measured and normalized to the control Renilla luciferase activity. Data from Qk060 lot #104408. Please note: protein activity has been determined in a standardized assay using human cells.



Purity

Recombinant bovine HGF protein migrates as a single band at 18 kDa in non-reducing (NR) conditions and 20 kDa upon reduction (R). Purified recombinant protein (3 µg) was resolved using 15% w/v SDS-PAGE in reduced (+β-mercaptothanol, R) and non-reduced (NR) conditions and stained with Coomassie Brilliant Blue R250. Data from Qk060 batch #104408.



Original product page: https://qkine.com/product/recombinant-bovine-hgf-nk1-protein-qk060-fg/

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