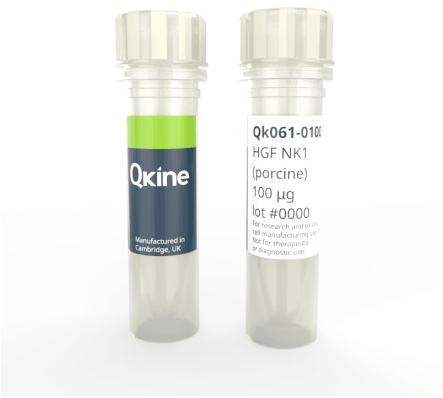
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Recombinant porcine HGF NK1 protein (Qk061)



Type: Stem cells

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

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Product Information

Recombinant porcine HGF protein is a potent, high-purity NK1 isoform of porcine hepatocyte growth factor (HGF). The porcine recombinant protein 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 Qk060 bovine HGF NK1. The highly scalable animal origin-free manufacture and enhanced bioactivity make this suitable for chemically-defined media and reproducible scale-up.

Qk061 is a 20 kDa naturally occurring isoform of HGF, animal origin-free and carrier-protein free.

Alternative protein names

Hepatopoietin-A, Scatter factor, SF, Qk61

Molecular weight

20 kDa

Protein Uniprot number

High purity recombinant porcine HGF Protein (Uniprot: A0A3Q1LSS6)

Species reactivity

- porcine

Product Information

- >98%, by SDS-PAGE quantitative densitometry
- Expressed in *E. coli*
- Animal origin-free (AOF) and carrier protein-free
- Manufactured in our Cambridge, UK laboratories
- Lyophilized from acetonitrile, TFA

Reconstitution instructions

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

Featured applications

- Differentiation of iPSCs to hepatocyte-like cells
- iPSC and primary cell differentiation to muscle
- Cellular agriculture and cultivated meat cell culture media optimization
- Cellular agriculture process development

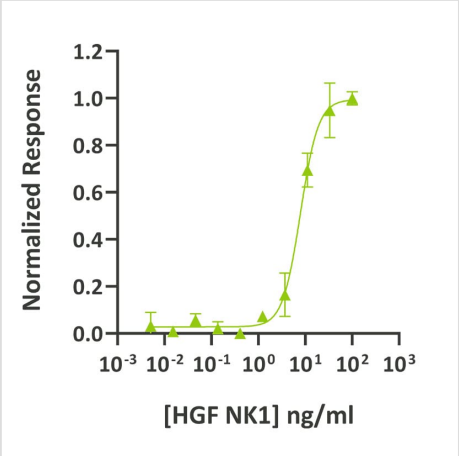
Further quality assays

- Mass spectrometry: single species with expected mass
- Recovery from stock vial: >95%
- Endotoxin: <0.05 EU/µg protein

Scientific Information

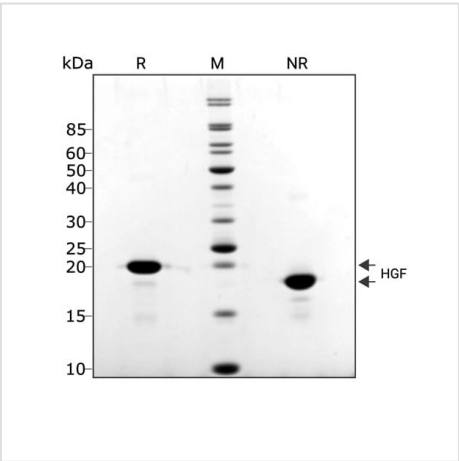
Bioactivity

HGF NK1 activity was determined using the Promega serum response element luciferase reporter assay (*) in HEK293T cells. EC50 = 7.0 ng/ml (338 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 Qk061 lot #104417. Please note: protein activity has been determined in a standardized assay using human cells. *Promega pGL4.33[*luc2P* /SRE/Hygro] #E1340



Purity

Recombinant porcine HGF protein (Qk061) 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 Qk061 batch #104417.



Original product page: https://qkine.com/product/recombinant-porcine-hgf-nk1-protein-qk061/

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