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# Recombinant human HGF NK1 protein (Qk013)




**Type:** Stem cells

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

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## Product Information

Hepatocyte growth factor (HGF) is a multi-functional cytokine that promotes the growth and proliferation of various cell types including mesenchymal, endothelial, and epithelial cells. It is involved in embryonic development, cell motility, survival, angiogenesis, and tissue regeneration. In cell culture, HGF is used to promote the differentiation of mesenchymal cells towards hepatocytes, osteocytes, and endothelial cells.

Recombinant human HGF NK1 protein is a potent naturally occurring isoform of HGF. This protein is animal origin-free, carrier protein-free, and tag-free to ensure its purity with exceptional lot-to-lot consistency with a molecular weight of 20 kDa. It promotes efficient differentiation of human induced pluripotent stem cells to hepatocyte-like cells at just 10 ng/ml with highly homogeneous expression of the hepatic marker, HNF4α.

**This protein is also available as GMP compliant Cell Therapy Grade, to enquire email support@qkine.com.**

### Alternative protein names

Hepatopoietin-A, Scatter factor, SF, HGF-NK1, HGF (NK1), Qk13

### Molecular weight

20 kDa

### Protein Uniprot number

High purity human HGF NK1 protein (Uniprot: P14210)

## Species reactivity

- human
- species similarity:
- mouse - 89%
- rat - 90%
- bovine - 93%
- porcine - 95%

## 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
- Chemically defined media for organoid culture
- Airway, mammary, liver hepatocyte, and urothelium organoids

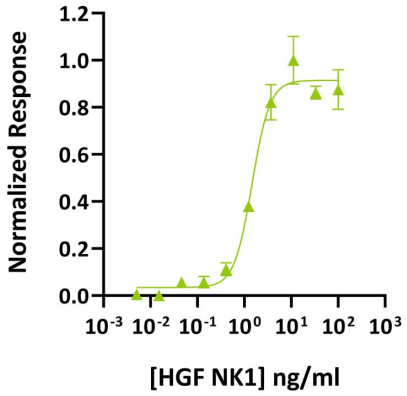
## Further quality assays

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

## Scientific Information

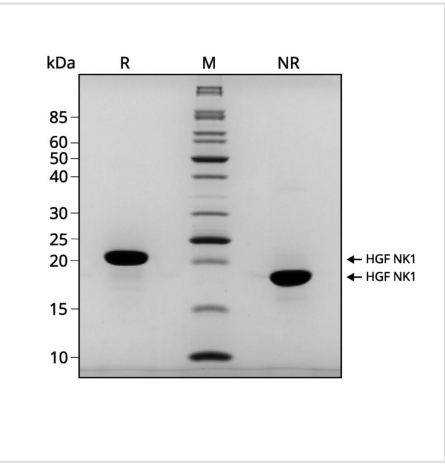
### Bioactivity

HGF NK1 activity was determined using a quantitative Promega serum response element luciferase reporter assay in transfected HEK293T cells. Cells were treated in triplicate with a serial dilution of HGF NK1 for 6 hours. Firefly luciferase activity was measured and normalized to the control Renilla luciferase activity. EC50 = 1.5 ng/ml. Data from Qk013 lot #010.




### Purity

Recombinant HGF NK1 migrates as a major band at approximately 21 kDa in reduced (R) and at approximately 18 kDa in non-reduced (NR) conditions. No contaminating protein bands are present. The purified recombinant protein (3 µg) was resolved using 15% w/v SDS-PAGE in reduced (+β-mercaptoethanol, R) and non-reduced (NR) conditions and stained with Coomassie Brilliant Blue R250. Data from Qk013 lot #104451.




**Original product page:** https://qkine.com/product/recombinant-human-hgf-protein/

**PDF generated:** 15 October 2026

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