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Recombinant human FGF-9 protein (Qk039)



Type: Stem cells

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

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Product Information

Human FGF-9 protein is a member of the fibroblast growth factor (FGF) family, FGF-9 is involved in many developmental processes including neural and skeletal development. Recombinant FGF-9 is used frequently in the generation of kidney organoids.

Qkine recombinant human FGF-9 is a highly pure and bioactive 23 kDa protein, animal origin-free (AOF) and carrier-protein free (CF).

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

Alternative protein names

Fibroblast growth factor 9, FGF-9, Glia-activating factor, GAF, Heparin-binding growth factor 9, HBGF-9, FGF9, FGF 9, Qk39

Product Size Wording

500ug shipped as 2 x 250ug | 1000ug shipped as 4 x 250ug

Molecular weight

23 kDa (monomer)

Protein Uniprot number

High purity optimized human FGF-9 protein (Uniprot: P31371)

Species reactivity

- human
- species similarity:
- mouse - 99%
- rat - 99%
- bovine - 98%
- porcine - 98%

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 HEPES, NaCl

Reconstitution instructions

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

Featured applications

- Chemically defined media
- Kidney organoid generation

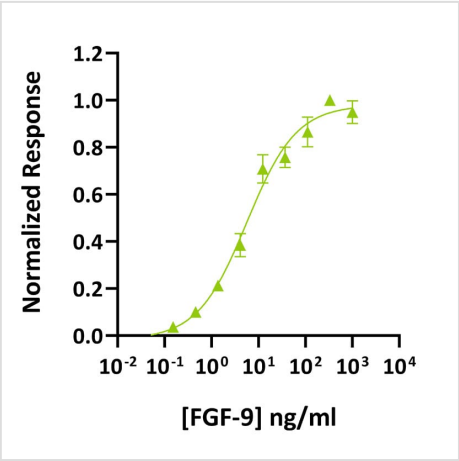
Further quality assays

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

Scientific Information

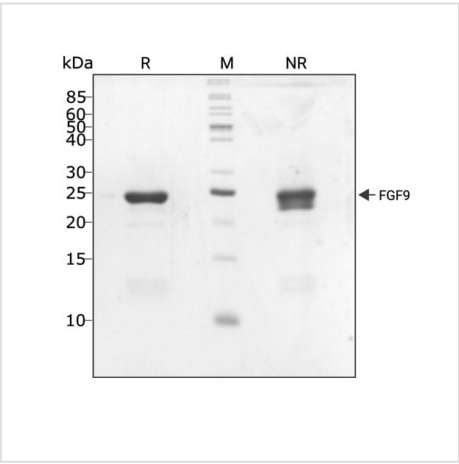
Bioactivity

FGF-9 activity was determined using the Promega serum response element luciferase reporter assay (*) in transfected HEK293T cells. Cells were treated in triplicate with a serial dilution of FGF-9 for 3 hours. Firefly luciferase activity was measured and normalized to the control Renilla luciferase activity. EC50 = 246.2 pM (5.7 ng/ml). Data from Qk039 lot #104295. *Promega pGL4.33[*luc2P*/SRE/Hygro] #E1340



Purity

FGF-9 protein migrates as a single band at 23 kDa in non-reducing (NR) conditions and upon reduction (R). No contaminating protein bands are visible. 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 Qk039 lot #104295.



Original product page: https://qkine.com/product/recombinant-human-fgf-9-protein-qk039/

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