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Recombinant human FGF-19 protein (Qk086)



Type: Stem cells

Available for purchase: unit size (µg): 25, 50, 100, 500, 1000

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Product Information

Fibroblast growth factor 19 (FGF-19), a member of the FGF family, and plays a role in regulating metabolic processes. FGF-19 is expressed by embryonic stem cells and can be used in stem cell and organoid cultures to promote liver and osteogenic differentiation.

FGF-19 is a high purity protein with a molecular weight of 21.8 kDa. This protein is animal origin-free, carrier-free and tag-free to ensure its purity with exceptional lot-to-lot consistency. Qkine FGF-19 is suitable for the culture of reproducible and high-quality stem cells, primary cells and organoids.

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

Alternative protein names

Fibroblast Growth Factor 19, FGF19, FGF 19, Qk86

Molecular weight

21.8 kDa (monomer)

Protein Uniprot number

High purity human FGF-19 (UniProt: O95750)

Species reactivity

- human
- species similarity:
- mouse - 51%
- rat - 52%
- bovine - 75%
- porcine - 77%

Product Information

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

Reconstitution instructions

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

Featured applications

- Metabolic disease research
- Liver cell regeneration
- Cancer research including gastrointestinal cancers
- Directed osteogenic differentiation of mesenchymal stem cells

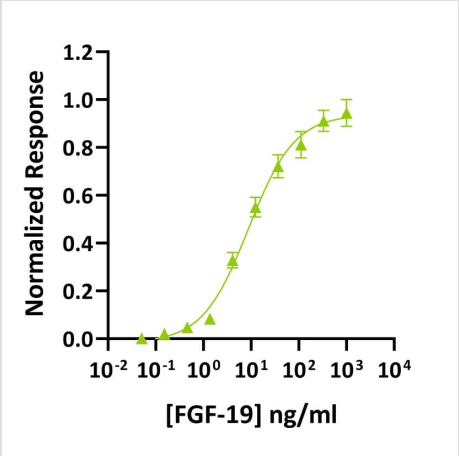
Further quality assays

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

Scientific Information

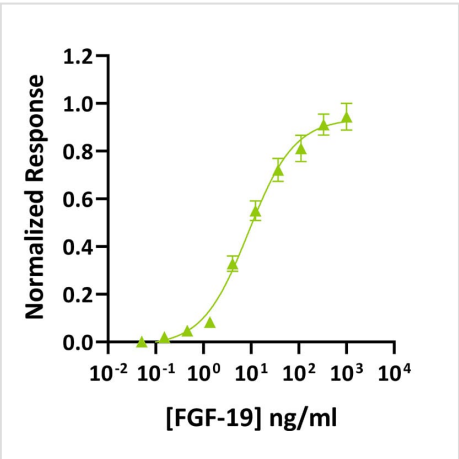
Bioactivity

Recombinant FGF-19 activity was determined using a FGF-19-responsive firefly luciferase reporter assay. Transfected HEK293T cells were treated in triplicate with a serial dilution of FGF-19 for 3 hours. Firefly activity was measured and normalized to the control Renilla luciferase activity. Data from Qk086 lot #204724. EC50 = 8.9 ng/ml (0.41 nM).



Purity

Recombinant FGF-19 migrates as a major band at approximately 25 kDa (monomer) in reduced (R) and at approximately 22 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 Qk086 lot #204724.



Original product page: https://qkine.com/product/recombinant-human-fgf-19-protein-qk086/

PDF generated: 13 October 2026

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