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Recombinant human FGF-8b protein (Qk057-CTG)



Type: Cell Therapy Grade

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

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Product Information

Fibroblast growth factor 8b (FGF-8b) is a member of the FGF family involved in the regulation of embryogenesis, cellular proliferation, differentiation, and migration. FGF-8b is commonly used for the differentiation of induced pluripotent stem cells into neural cell types and brain organoid cultures. FGF-8b is a spliced form of FGF-8, a heparin-binding protein that targets mammary and non-mammary cells expressing the FGF receptors.

Qkine FGF-8a is a 22.5 kDa highly pure, bioactive recombinant protein produced in an animal origin-free expression system. This protein is carrier-free, tag-free and non-glycosylated to ensure a pure, homogenous protein with exceptional lot-to-lot consistency, suitable for cell therapy development.

Qkine cell therapy grade high purity animal origin-free proteins are manufactured as GMP grade equivalents in an ISO 9001:2015-certified facility, under ISO 20399:2022 standards with GMP compliance, defined quality criteria and documentation.

This product is available to order now and will be in stock soon, please contact us for the estimated lead time customerservice@qkine.com

Alternative protein names

AIGF, AIGFKAL6, Androgen-induced growth factor, FGF8, FGF-8, Fibroblast Growth Factor – 8, HBGF-8, Heparin Binding Growth Factor – 8, MGC149376, FGF8b, FGF 8b, Qk57, FGF-8 GMP

Molecular weight

22.5 kDa

Protein Uniprot number

High purity human FGF-8b protein (Uniprot: P55075)

Species reactivity

- human
- species similarity:
- mouse - 100%

Product Information

- Certified animal origin-free (AOF)
- Cell and gene therapy grade
- Manufactured in our ISO 9001:2015 facility in Cambridge, UK
- Lot-to-lot consistency in bioactivity
- Full traceability and documentation
- Carrier protein-free, tag free
- Expressed in *E. coli*
- Lyophilized from Tris, NaCl, CyS, mannitol

Reconstitution instructions

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

Featured applications

- Pluripotent stem cell therapy
- Neural stem cell (NSC) therapy
- Regenerative stem cell therapy

Further quality assays

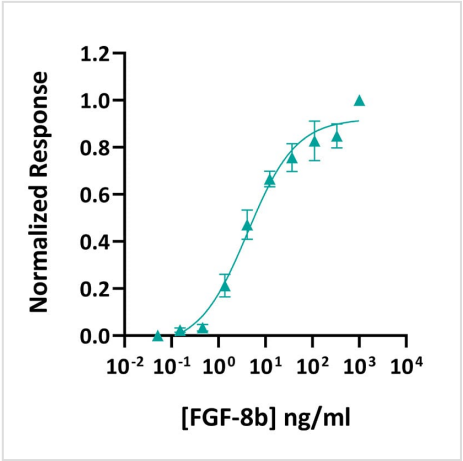
- Mass spectrometry: single species with expected mass
- Purity >98%, by SDS-PAGE quantitative densitometry
- Recovery from stock vial: >95%
- Sterility tested and mycoplasma negative
- Endotoxin: <0.05 EU/µg protein
- Residual host cell protein <10 ng/µg

- Residual host cell DNA <10 ng/μg
- N-terminal sequence analysis

Scientific Information

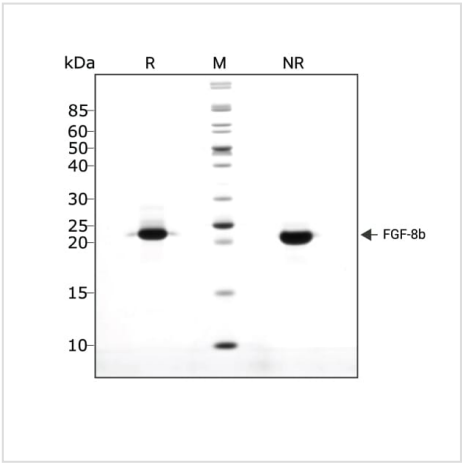
Bioactivity

FGF-8b activity was determined using the Promega serum response element luciferase reporter assay in HEK293T cells. EC50 = 4.1 ng/ml (0.18 nM). Cells were treated in triplicate with a serial dilution of FGF-8b for 3 hours. Firefly luciferase activity was measured and normalized to the control Renilla luciferase activity. Data from Qk057 lot #104458.



Purity

FGF-8b (Qk057) migrates as a single band at 22.5 kDa in non-reducing (NR) conditions and upon reduction. 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 Qk057 batch #104458.



Original product page: https://qkine.com/product/recombinant-human-fgf-8b-protein-qk057-ctg/

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