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Recombinant human FGF-8b protein (Qk057)



Type: Stem cells

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-8b 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 enhanced reproducibility and physiologically relevant cultures.

Qkine FGF-8b is also available as cell therapy grade with extended quality testing and documentation - Qk057-CTG

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

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

- >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, mannitol

Reconstitution instructions

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

Featured applications

- Differentiation of midbrain dopaminergic neurons
- Neurite outgrowth from spiral ganglion neurons
- Generation of induced neuronal cells from reprogrammed fibroblasts
- Generation of iPSC-derived midbrain organoids

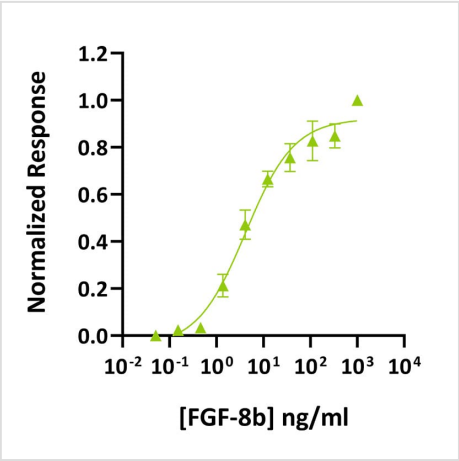
Further quality assays

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

Scientific Information

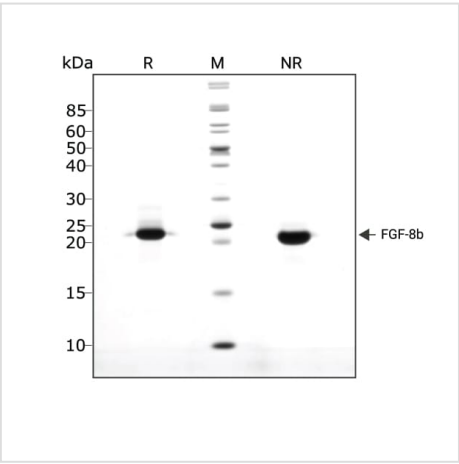
Bioactivity

FGF-8b activity was determined using the Promega serum response element luciferase reporter assay in HEK293T cells. 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. EC50 = 4.1 ng/ml (0.18 nM).



Purity

FGF-8b 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 lot #104458.



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

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