

## Recombinant human FGF-8a protein (Qk059)



**Type:** Stem cells

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

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### Product Information

Fibroblast growth factor 8a (FGF-8a) is a member of the [FGF family](#) and plays a key role in the regulation of embryogenesis, cellular proliferation, differentiation, and migration. FGF-8a is often used for the differentiation of induced [pluripotent](#) stem cells, embryonic stem cells, and neural stem cells.

FGF-8a is a spliced form of FGF-8, a heparin-binding protein that targets mammary and non-mammary cells expressing the FGF receptors. A 21.3 kDa highly pure, bioactive recombinant protein produced in an animal-free expression system. This protein is [animal-origin free](#) (AOF), carrier protein-free, tag-free, and non-glycosylated to ensure a pure homogenous protein with exceptional lot-to-lot consistency. Qk059 is suitable for enhanced reproducibility and physiologically relevant cultures.

**This protein is also available as GMP compliant [Cell Therapy Grade](#), to enquire email [ryan.weber@matriq.com](mailto:ryan.weber@matriq.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, FGF8a, FGF 8a, Qk59

#### Molecular weight

21.3 kDa

#### Protein Uniprot number

High purity human FGF-8a protein (Uniprot: P55075-2)

## Species reactivity

- human
- species similarity:
- mouse - 100%
- rat - 100%
- bovine - 100%
- porcine - 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
- Morphogenesis of mid-hindbrain
- Differentiation of iPSC derived neural progenitors to neurons

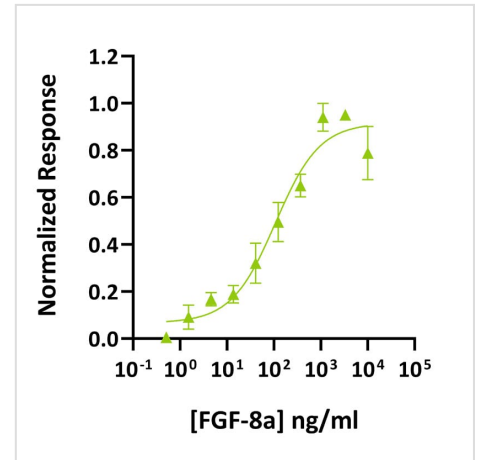
## Further quality assays

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

## Scientific Information

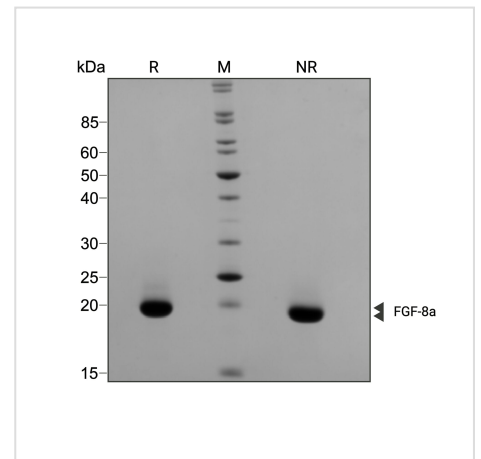
### Bioactivity

FGF-8a 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-8a in the presence of 10 µg/ml heparin for 3 hours. Firefly luciferase activity was measured and normalized to the control Renilla luciferase activity. Data from Qk059 lot #104406. EC50 = 110 ng/ml (5.2 nM).



### Purity

FGF-8a migrates as a single band at 21.3 kDa in non-reducing (NR) conditions and upon reduction (R). 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 Qk059 lot #104412.



**Original product page:** <https://ryan.calliope-alpha.ts.net/product/recombinant-human-mouse-fgf-8a-protein-qk059/>

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