Technical Data Sheet

Recombinant human/mouse FGF-9 protein

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Attention: Use of this product constitutes an agreement to Bio X Cell's Terms and Conditions which are included with this product in print and can also be found at https://bioxcell.com/terms-and-conditions.

Lot Specific Information

Lot Number: **Lot Specific***

Total Protein: **Lot Specific***

*This information will be noted on the certificate of analysis that ships with this product.

Shelf Life

This product has a guaranteed shelf-life of one year from the date of customer receipt when stored as recommended.

Product Information

Catalog Number:	**RP056**
Protein Identity:	Confirmed identity with expected mass, determined by mass spectrometry
Reported Applications:	Chemically defined media Kidney organoid generation
Formulation:	Lyophilized, white powder
Endotoxin:	≤17.8 EU/mg, LAL assay
Purity:	≥95%; SDS-PAGE
Reconstitution:	Resuspend in sterile-filtered water at >50 µg/ml. Once reconstituted, store in single-use aliquots to avoid freeze-thaw cycles. Store reconstituted protein at -20 °C to -80 °C for a maximum of 12 months or until the expiry date if sooner.
Sterility:	Sterile
Production:	Microbial. Expressed in E. coli
Molecular Weight:	23 kDa (monomer)
Bioactivity Assay:	No significant difference between EC50 of reference and test lots
Mycoplasma:	Negative

Description

Recombinant human/mouse FGF-9 protein (fibroblast growth factor 9), also known as glia-activating factor, is a member of the fibroblast growth factor (FGF) family that binds and activates the 'c' splice isoforms of FGF receptors 1–3 and can activate ERK, STAT, PI3K and MAP kinase signaling pathways. FGF-9 is implicated in many developmental processes, including lung and skeletal development, sex determination and neural patterning in the optic neuroepithelium, and it modulates the development and survival of neurons and glia. FGF-9 has also been reported to play pro-survival roles, enhancing cell proliferation and alleviating cell death, in neurodegenerative diseases such as Parkinson's disease, Huntington's disease and Alzheimer's disease. In cell culture, FGF-9 is commonly used in the generation of kidney organoids, making recombinant FGF-9 a key reagent for organoid, developmental biology and neuroscience research. This protein is optimized for in vivo and functional applications: low-endotoxin, tag-free, and carrier-free, supporting reproducible performance in demanding preclinical and bioactivity studies. A GMP-grade version of this protein is available for cell and gene therapy manufacturing. Contact us at customerservice@bioxcell.com for details. Species reactivity: human. Species similarity: mouse - 99%, rat - 99%, bovine - 98%, porcine - 98%.

Storage

Store at the stock concentration at 4°C . **Do not freeze.**

It is not uncommon for a floccule or precipitate to appear during storage. The floccule is typically buffer salts precipitating out of solution or a small bit of protein aggregation. For information on how to remove floccules or precipitates see our FAQ's at https://bioxcell.com/faqs.

Store lyophilized protein between -20 °C and -80 °C until the date of expiry. Avoid freeze-thaw cycles

Conditions: For research use only. Not for use in diagnostic or therapeutic

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