Technical Data Sheet

Recombinant bovine/porcine FGF-2 (154 aa) protein

bioxcell.com

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:	**RP069**
Protein Identity:	Confirmed identity with expected mass, determined by mass spectrometry
Reported Applications:	Bovine and porcine primary cell culture Bovine and porcine stem cell expansion and maintenance Cellular agriculture process development Serum-free media development
Formulation:	Lyophilized, white powder
Endotoxin:	≤0.5 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:	17.1 kDa
Bioactivity Assay:	No significant difference between EC50 of reference and test lots
Mycoplasma:	Negative

Description

Recombinant bovine/porcine FGF-2 (154 aa) protein, also known as basic fibroblast growth factor (bFGF), is a member of the fibroblast growth factor family with a broad range of physiological roles, including regulation of cell proliferation and differentiation. In cell culture, FGF-2 is used to support the maintenance of porcine (pig) and bovine (cow) embryonic stem cells and the proliferation and differentiation of induced pluripotent and mesenchymal stem cells, and it is an essential growth factor in cultivated meat culture media for the proliferation of stem cells and primary cells. Available in two forms, 154 aa and 145 aa, recombinant bovine/porcine FGF-2 facilitates the development of fully optimized serum-free culture media for cellular agriculture applications, making it a key reagent for cultivated meat and cellular agriculture 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. Species reactivity: bovine, porcine.

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

Bio X Cell, LLC

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

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