

Technical Data Sheet

Recombinant human FGF-10 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 Website Link: <https://bioxcell.com/recombinant-human-fgf-10-protein-rp001>

Product Information

Catalog Number:	RP001
Protein Identity:	Confirmed identity with expected mass, determined by mass spectrometry
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 kDa
Bioactivity Assay:	No significant difference between EC50 of reference and test lots
Mycoplasma:	Negative

Description

Recombinant human FGF-10 protein (fibroblast growth factor 10) is a ~20 kDa mesenchyme-secreted growth factor, closely related to FGF-7, that is bound and activated by extracellular FGF-BP and signals mainly through the epithelial FGF receptor 2b (FGFR2b), with weaker binding to FGFR1b. During development, FGF-10 drives epithelial-mesenchymal signaling in the limb bud, induces the apical ectodermal ridge, and directs branching morphogenesis of the lung, and it contributes to the formation of white adipose tissue, heart, liver, brain, kidney, thymus, inner ear, tongue, trachea, eye, prostate, salivary and mammary glands. Clinically, FGF-10 dysregulation is linked to pancreatic and breast cancer risk and to COPD-like symptoms in haploinsufficiency. In cell culture, recombinant FGF-10 promotes differentiation of embryonic stem cells into gut-like structures, cardiomyocytes and hepatocytes and is a potent driver of organoid growth and branching, making it a key reagent for stem cell and organoid 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: human. Species similarity: mouse - 94%, rat - 100%, bovine - 99%, porcine - 99%.

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
<https://bioxcell.com>

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

+1-866-787-3444
customerservice@bioxcell.com

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