

# Technical Data Sheet

## Recombinant human KGF (FGF-7) protein



[bioxcell.com](https://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 Website Link: <https://bioxcell.com/recombinant-human-kgf-fgf-7-protein-rp012>

### Product Information

|                    |                                                                                                                                                                                                                                                |
|--------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Catalog Number:    | RP012                                                                                                                                                                                                                                          |
| 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:  | 19 kDa                                                                                                                                                                                                                                         |
| Bioactivity Assay: | No significant difference between EC50 of reference and test lots                                                                                                                                                                              |
| Mycoplasma:        | Negative                                                                                                                                                                                                                                       |

### Description

Recombinant human KGF (FGF-7) protein, keratinocyte growth factor, is a member of the large fibroblast growth factor family and, alongside FGF-3, FGF-10 and FGF-22, part of the FGF-7 subfamily. Secreted exclusively by the mesenchyme, KGF specifically activates the "b" isoforms of FGFR1 and FGFR2 (acting primarily through the IIIb splice form of FGFR2) in the overlying epithelium. KGF is required for development of the kidney, thymus and hippocampus and plays an important role in wound healing, a function highlighted in bioengineered skin studies. As a recombinant reagent, KGF (FGF-7) is widely used to generate many organoid types, including lung, breast, liver and bladder organoids, making it a valuable growth factor for epithelial 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 - 96%, rat - 92%, bovine - 98%, porcine - 96%.

### 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

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*Not for resale.*

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