

## FGF7

### Recombinant Human FGF-7, GMP Grade

|                                 |  |                  |                |
|---------------------------------|--|------------------|----------------|
| <b>Catalog No.</b>              | CRF007A-GMP<br>CRF007B-GMP   | <b>Quantity:</b> | 5 µg<br>100 µg |
| <b>Alternate Names:</b>         | Fibroblast growth factor 7, FGF-7, Heparin-binding growth factor 7, HBGF-7, Keratinocyte growth factor   |                  |                |
| <b>Description:</b>             | Fibroblast growth factor 7 (FGF-7/KGF-1), is encoded by the FGF7 gene and binds to the b splice form of the tyrosine kinase receptor, FGFR2b. Affinity between FGF-7 and its receptor is increased by heparin or heparan sulfate proteoglycan. FGF-10, also called keratinocyte growth factor 2 (KGF-2), shares 51% amino acid sequence identity and similar function to KGF-1, but uses an additional receptor, FGFR2c. KGF-1 is important in the regulation of embryonic development, cell proliferation and cell differentiation. KGF-1 is active on keratinocytes, and exhibits mitogenic activity for epidermal cells, but essentially no activity for fibroblasts. KGF-1 has species cross activity, human KGF-1 shares 96 % amino acid sequence identity with murine, and 92% with rat. |                  |                |
|                                 | <b>Manufacturing and testing of this product complies with ICH Q7 guidelines.</b>  |                  |                |
| <b>UniProt ID:</b>              | P21781   |                  |                |
| <b>Source:</b>                  | <i>E. coli</i>   |                  |                |
| <b>Molecular Weight:</b>        | ~18.9 kDa (163 aa) monomer   |                  |                |
| <b>Formulation:</b>             | Lyophilized from sterile-filtered 20 mM phosphate buffer, 500 mM NaCl, 5% Trehalose, 0.02% Tween-20, pH 7.4  |                  |                |
| <b>Purity:</b>                  | > 98% by SDS-PAGE  |                  |                |
| <b>Endotoxin Level:</b>         | < 0.01EU/µg as determined by LAL method.   |                  |                |
| <b>Contaminants:</b>            | < 0.10% host cell protein by ELISA   |                  |                |
| <b>Biological Activity:</b>     | ED <sub>50</sub> < 10 ng/ml, determined by thymidine uptake assay using FGF-receptors transfected BaF3 cells   |                  |                |
| <b>Specific Activity:</b>       | > 1.0 × 10 <sup>5</sup> U/mg   |                  |                |
| <b>Amino Acid Sequence:</b>     | CNDMTPEQMA TNVNCSSPER HTRSVDYMEG GDIRVRRLLFC RTQWYLRIDK<br>RGKVKGTQEM KNNYNIMEIR TVAVGIVAIAK GVESEFYLAM NKEGKLYAKK<br>ECNEDCNFKE LILENHNTY ASAKWTHNGG EMFVALNQKG IPVRGKKTCK<br>EQKTAHFLPM AIT  |                  |                |
| <b>Reconstitution:</b>          | <b>Centrifuge the vial prior to opening.</b> Reconstitute with sterile water at 0.1-1.0 mg/ml by gently pipetting to wash down the sides of the vial to ensure full recovery of the protein into solution. <b>Do not vortex.</b> Allow a few minutes for complete solubilization.  |                  |                |
| <b>Storage &amp; Stability:</b> | Lyophilized vial is shipped at ambient temperature. Immediately upon receipt, store unopened vial at -20°C (manual defrost freezer) or -80°C for up to 36 months. Upon reconstitution, prepare working aliquots and store at -20°C (manual defrost freezer) or -80°C. It is recommended that a carrier protein such as 0.1% HSA or BSA is added for long term storage. For short term storage reconstituted material is stable for 4-6 weeks when stored at 2-8°C. <b>Avoid repeated freeze-thaw cycles.</b>   |                  |                |

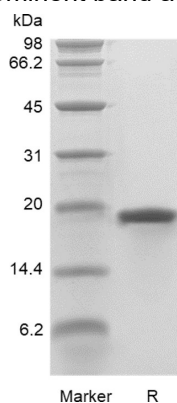
**Applications:**

For *ex vivo* use only. Not for injection or diagnostic procedures. The safety and efficacy of this product in diagnostic or other clinical uses has not been established.

**Country of Origin:**

USA

SDS-PAGE GMP Grade rhFGF-7  
Single Prominent band at ~18.9 kDa



**NOT FOR HUMAN USE. FOR RESEARCH ONLY. NOT FOR DIAGNOSTIC OR THERAPEUTIC USE.**



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