

## Product Datasheet

### Recombinant FGF-10, His, Human (orb1494888)

<b>Description</b>	Fibroblast Growth Factor-10 (FGF-10) is a mitogen mainly produced by mesenchymal stem cells in lung. FGF-10 belongs to the heparin binding FGF family, and is also known as Keratinocyte Growth Factor-2 (KGF-2). It shares the homolog and receptor FGFR2-IIIb with KGF. However, unlike KGF which induces the proliferation and differentiation of various epithelial cells, FGF-10 is an essential factor for the budding and branching morphogenesis during the multi-organ development via the instructive mesenchymal-epithelial interactions. FGF-10 is crucial for lung and limb development, and is regulated by Shh during early development. Recombinant human Fibroblast Growth Factor-10 (rhFGF-10) with N-terminal His-tag produced in E. coli is a single non-glycosylated polypeptide chain containing 187 amino acids. A fully biologically active molecule, rhFGF-10 has a molecular mass of 21.4 kDa analyzed by reducing SDS-PAGE and is obtained by proprietary chromatographic techniques at GenScript.
<b>Endotoxins</b>	< 0.2 EU/μg, determined by LAL method.
<b>Preservatives</b>	Lyophilized after extensive dialysis against PBS.
<b>Form/Appearance</b>	Lyophilized after extensive dialysis against PBS.
<b>Storage</b>	Lyophilized recombinant human Fibroblast Growth Factor-10 (rhFGF-10) remains stable up to 6 months at -80°C from date of receipt. Upon reconstitution, rhFGF-10 should be stable up to 2 weeks at 4°C or up to 3 months at -20°C.
<b>Note</b>	For research use only
<b>Application notes</b>	Reconstituted in ddH2O at 100 μg/mL.
<b>Protein Sequence</b>	MNHKVVHHHHHMDDDDKMLG QDMVSPEATN SSSSSFSPPS SAGRHVRSYN HLQGDVRWRK LFSFTKYFLK IEKNGKVSQT KKENCYPYSL EITSVEIGVV AVKAINSNYY LAMNKKGKLY GSKEFNNDCK LKERIEENGY NTYASFNWQH NGRQMYVALN GKGAPRRGQK TRRKNTSAHF LPMVVHS
<b>Purity</b>	> 95% by SDS-PAGE analysis.
<b>Source</b>	Escherichia coli.

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**MW** 21.4 kDa, observed by reducing SDS-PAGE.

**Expiration Date** 6 months from date of receipt.

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