

## Overview

<b>Synonyms</b>	Fibroblast Growth Factor-10, FGFA, Keratinocyte growth factor-2
<b>Description</b>	<p><b>Fibroblast Growth Factor-10 (FGF-10)</b> 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.</p> <p>Recombinant <b>human Fibroblast Growth Factor-10 (rhFGF-10)</b> with N-terminal His-tag produced in <i>E. coli</i> 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.</p>
<b>Accession No</b>	O15520
<b>Species</b>	Human
<b>Source</b>	<i>E. coli</i>
<b>Biological Activity</b>	ED <sub>50</sub> < 20 ng/mL, measured by a cell proliferation assay using 4MBr-5 cells, corresponding to a specific activity of > 5.0× 10 <sup>4</sup> units/mg.
<b>Sequence</b>	<p>MNHKVVHHHHH HMDDDDKMLG QDMVSPEATN SSSSFSSPS  SAGRHVRSYN HLQGDVRWRK LFSFTKYFLK IEKNGKVSQT  KKENCYPYSIL EITSVEIGVV AVKAINSNNY LAMNKKGKLY  GSKEFNNDCK LKERIEENGY NTYASFNWQH NGRQMYVALN  GKGAPRRGQK TRRKNTSAHF LPMVVHS</p>

## Properties

<b>Measured Molecular Weight</b>	21.4 kDa, observed by reducing SDS-PAGE.
<b>Purity</b>	> 95% by SDS-PAGE analysis.
<b>Formulation</b>	Lyophilized after extensive dialysis against PBS.
<b>Reconstitution</b>	Reconstituted in ddH <sub>2</sub> O at 100 µg/mL.
<b>Endotoxin Level</b>	< 0.2 EU/µg, determined by LAL method.
<b>Storage</b>	Lyophilized recombinant <b>human Fibroblast Growth Factor-10 (rhFGF-10)</b> remains stable up to 6 months at lower than -70°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

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