

## 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 homology with KGF, and both KGF and FGF-10 activate the receptor FGFR2-IIIb. 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 multi-organ development via mesenchymal-epithelial interactions. FGF-10 is crucial for lung and limb development and is regulated by Shh during early development.</p> <p>Recombinant <b>mouse Fibroblast Growth Factor-10 (rmFGF-10)</b> produced in <i>E. coli</i> is a single non-glycosylated polypeptide chain containing 148 amino acids. A fully biologically active molecule, rmFGF-10 has a molecular mass of 17.0 kDa analyzed by reducing SDS-PAGE and is obtained by proprietary chromatographic techniques.</p>
<b>Accession No</b>	O35565
<b>Species</b>	Mouse
<b>Source</b>	<i>E. coli</i>
<b>Biological Activity</b>	ED <sub>50</sub> < 10 ng/mL, measured by a cell proliferation assay using 4MBr-5 cells, corresponding to a specific activity of > 1.0× 10 <sup>5</sup> units/mg.
<b>Sequence</b>	<p>SSAGRHVRSY NHLQGDVRRW RLFSFTKYFL TIEKNGKVSG            TKNEDCPYSV LEITSVEIGV VAVKAINSNY YLAMNKKGKL            YGSKEFNDC KLKERIEENG YNTYASFNWQ HNGRQMYVAL            NGKGAPRRGQ KTRRKNTSAH FLPMTIQT</p>

## Properties

<b>Measured Molecular Weight</b>	17.0 kDa, observed by reducing SDS-PAGE.
<b>Purity</b>	> 95% as analyzed by SDS-PAGE and HPLC.
<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>mouse Fibroblast Growth Factor-10 (rmFGF-10)</b> remains stable up to 6 months at lower than -70°C from date of receipt. Upon reconstitution, rmFGF-10 remains 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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