

**Recombinant Murine Fibroblast Growth Factor-7  
(rmFGF-7)  
Catalog Number: 124-07**

<b>Description</b>	Fibroblast Growth Factor 7 (FGF-7) is one of the 23 known members of the FGF family. All FGFs have two conserved cysteine residues and share 30 - 50% sequence identity at the amino acid level. Proteins of this family play a central role during prenatal development and postnatal growth and regeneration of variety of tissues, by promoting cellular proliferation and differentiation. FGF-7 is a mitogen factor specific for epithelial cells and keratinocytes and signals through FGF receptor 2b. FGF-7 is important in kidney and lung development, angiogenesis, and wound healing.
<b>Synonyms</b>	KGF, FGF7
<b>AA Sequence</b>	MCNDMSPEQT ATSVNCSSPE RHTRSYDYME GGDIRVRRLLF CRTQWYLRID KRGKVKGTQE MKNSYNIMEI RTVAVGIVAI KGVESYLLA MNKEGKLYAK KECNEDCNFK ELILENHNT YASAKWTHSG GEMFVALNQG GIPVKGKTK KEQKTAHFLP MAIT
<b>Source</b>	<i>Escherichia coli</i>
<b>Molecular Weight</b>	Approximately 18.9 kDa, a single, non-glycosylated polypeptide chain containing 164 amino acids.
<b>Purity</b>	>96% by SDS-PAGE and HPLC analyses.
<b>Biological Activity</b>	Fully biologically active. The ED <sub>50</sub> is < 10ng/ml, corresponding to a specific activity of 1 x 10 <sup>5</sup> units/mg, as determined by proliferation of BaF3 cells expressing KGF receptors.
<b>Physical Appearance</b>	White lyophilized powder.
<b>Formulation</b>	Lyophilized from a 0.2µm filtered solution in 20mM PB, pH 8.0, 1M NaCl.
<b>Endotoxin</b>	< 1EU/µg of growth factor as determined by LAL method.
<b>Reconstitution</b>	Reconstitute in sterile distilled water containing 0.1% BSA to a concentration of 0.1-1.0 mg/mL.
<b>Storage</b>	Store at -20°C after receiving. Upon reconstitution, store at 2-8°C for up to one week. For maximal stability, aliquot and store at -20°C. Avoid repeated freeze/ thaw cycles.
<b>Usage</b>	This product is for research use only. It is not approved for use in humans, animals, or <i>in vitro</i> diagnostic procedures.