

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

Description	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.
Synonyms	KGF, FGF7
AA Sequence	MCNDMSPEQT ATSVNCSSPE RHTRSYDYME GGDIRVRRLLF CRTQWYLRID KRGKVKGTQE MKNSYNIMEI RTVAVGIVAI KGVESYLLA MNKEGKLYAK KECNEDCNFK ELILENHNT YASAKWTHSG GEMFVALNQG GIPVKGKTK KEQKTAHFLP MAIT
Source	<i>Escherichia coli</i>
Molecular Weight	Approximately 18.9 kDa, a single, non-glycosylated polypeptide chain containing 164 amino acids.
Purity	>96% by SDS-PAGE and HPLC analyses.
Biological Activity	Fully biologically active. The ED ₅₀ is < 10ng/ml, corresponding to a specific activity of 1 x 10 ⁵ units/mg, as determined by proliferation of BaF3 cells expressing KGF receptors.
Physical Appearance	White lyophilized powder.
Formulation	Lyophilized from a 0.2µm filtered solution in 20mM PB, pH 8.0, 1M NaCl.
Endotoxin	< 1EU/µg of growth factor as determined by LAL method.
Reconstitution	Reconstitute in sterile distilled water containing 0.1% BSA to a concentration of 0.1-1.0 mg/mL.
Storage	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.
Usage	This product is for research use only. It is not approved for use in humans, animals, or <i>in vitro</i> diagnostic procedures.