

**Recombinant Human Keratinocyte Growth Factor-1
(rhKGF-1)
Catalog Number: 104-07**

Description	Keratinocyte Growth Factor-1 (KGF-1) 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. KGF-1 is a mitogen factor specific for epithelial cells and keratinocytes and signals through FGF receptor 2b. KGF-1 is important in kidney and lung development, angiogenesis, and wound healing.
Synonyms	FGF-7, HBGF-7
AA Sequence	MCNDMTPEQM ATNVNCSSPE RHTRSVDYME GGDIVRRLF CRTQWYLRID KRGKVKGTQE MKNNYNIMEI RTVAVGIVAI KGVSEFYLA MNKEGKLYAK KECNEDCNF KELILENHY NTYASAKWT HNGGEMFVAL NQKGIPVRGK KTKKEQKTAH FLPMAIT
Source	<i>Escherichia coli</i>
Molecular Weight	Approximately 19.0 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 $\geq 1 \times 10^5$ units/mg, as determined by proliferation of BaF3 cells expressing KGF receptors.
Physical Appearance	White lyophilized powder.
Formulation	Lyophilized from a 0.2 μ m filtered solution in 20mM PB, pH 8.0, 1M NaCl.
Endotoxin	< 1EU/ μ g 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.