

## 32-1549: rKGF Recombinant Protein

**Alternative Name :** FGFA,FGF10,FGF-10,KGF-2,Fibroblast growth factor 10.

### Description

Source : Escherichia Coli. KGF 2 Rat Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 179 amino acids and having a molecular mass of 20.0kDa. The KGF 2 is purified by proprietary chromatographic techniques. KGF-2 is a member of the fibroblast growth factor (FGF) family. FGF family members possess broad mitogenic and cell survival activities, and are involved in a variety of biological processes, including embryonic development, cell growth, morphogenesis, tissue repair, tumor growth and invasion. FGF-10 exhibits mitogenic activity for keratinizing epidermal cells, but essentially no activity for fibroblasts, which is similar to the biological activity of FGF7. Studies of the mouse homolog of suggested that this gene is required for embryonic epidermal morphogenesis including brain development, lung morphogenesis, and initiation of lim bud formation. This gene is also implicated to be a primary factor in the process of wound healing.

### Product Info

<b>Amount :</b>	25 µg
<b>Purification :</b>	Greater than 97.0% as determined by:(a) Analysis by RP-HPLC.(b) Analysis by SDS-PAGE.
<b>Content :</b>	Lyophilized from a 0.2µm filtered concentrated solution in 1xPBS, pH 7.4 containing 5% trehalose.
<b>Storage condition :</b>	Lyophilized KGF 2 although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution KGF 2 should be stored at 4°C between 2-7 days and for future use below -18°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA).Please prevent freeze-thaw cycles.
<b>Amino Acid :</b>	QALGQDMVSP EATNSSSSSS SSSSSSFSS PSSAGRHVRS YNHLQGDVRW RKLFSFTKYF LKIEKNGKVS GTKKENCYPYS ILEITSVEIG VVAVKAINSN YYLAMNKKKGK LYGSKEFNND CKLKERIEEN GYNTYASFNW QHNGRQMYVA LNGKGAPRRG QKTRRKNTSA HFLPMVVHS

### Application Note

It is recommended to reconstitute the lyophilized KGF 2 Rat Recombinant in sterile 18M-cm H2O not less than 100Åµg/ml, which can then be further diluted to other aqueous solutions. Fully biologically active when compared to standard. The ED50 as determined by the dose-dependent stimulation of thymidine uptake by BaF3 cells expressing FGF receptors is <0.5ng/ml.

