

## 32-1546: KGF 2 Recombinant Protein

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

### Description

Source : Escherichia Coli. Keratinocyte Growth Factor-2 Human Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 170 amino acids (40-208) and having a molecular mass of 19300 Dalton. Keratinocyte Growth Factor 2 is highly related to KGF-1(FGF-7), it binds to the same receptor as KGF-1 and shares 57% sequence homology. The FGF10 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 96.0% as determined by:(a) Analysis by RP-HPLC.(b) Analysis by SDS-PAGE.
<b>Content :</b>	Lyophilized from a 0.2um filtered concentrated (1mg/ml) solution in PBS, pH 7.4.
<b>Storage condition :</b>	Lyophilized Keratinocyte Growth Factor-2 although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution FGF10 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>	MLGQDMVSPE ATNSSSSSFS SPSSAGRHVR SYNHLQGDVR WRKLFSTFKY FLKIEKNGKV SGTKKENCYPY SILEITSVEI GVVAVKAINS NYLAMNKKG KLYGSKEFNN DCKLKERIEE NGYNTYASFN WQHNGRQMYV ALNGKGAPRR GQKTRRKNTS AHFLPMVVS.

### Application Note

It is recommended to reconstitute the lyophilized FGF-10 in sterile 18M<sup>l</sup>-cm H<sub>2</sub>O not less than 100µg/ml, which can then be further diluted to other aqueous solutions. The ED<sub>50</sub>, calculated by the dose-dependant stimulation of FGF receptors by BaF3 indicator cells (measured by <sup>3</sup>H-thymidine uptake) is < 0.5 ng/ml, corresponding to a specific activity of 2x10<sup>6</sup>units/mg.

