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# KGF 2 Human

**Description:**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.

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

**Source:**Escherichia Coli.

**Physical Appearance:**Sterile Filtered White lyophilized (freeze-dried) powder.

**Amino Acid Sequence:**MLGQDMVSPE ATNSSSSSFS SPSSAGRHVR SYNHLQGDVR WRKLFSFTKY FLKIEKNGKV SGTKKENCPY SILEITSVEI GVVAVKAINS NYYLAMNKKG KLYGSKEFNN DCKLKERIEE NGYNTYASFN WQHNGRQMYV ALNGKGAPRR GQKTRRKNTS AHFLPMVVHS.

**Purity:**Greater than 96.0% as determined by:(a) Analysis by RP-HPLC.(b) Analysis by SDS-PAGE.

**Formulation:**
Lyophilized from a 0.2um filtered concentrated (1mg/ml) solution in PBS, pH 7.4.

**Stability:**
Lyophilized Keratinocyte Growth Factor-2 althoμgh 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.

**Usage:**
NeoBiolab's products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drμgs, agricultural or pesticidal products, food additives or household chemicals.

**Solubility:**
It is recommended to reconstitute the lyophilized FGF-10 in sterile 18M-cm H2O not less than 100μg/ml, which can then be further diluted to other aqueous solutions.

**Introduction:**
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 sμggested 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.

**Biological Activity:**

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The ED50, calculated by the dose-dependant stimulation of FGF receptors by BaF3 indicator cells (measured by 3H-thymidine uptake) is < 0.5 ng/ml, corresponding to a specific activity of 2x106units/mg.

**Catalog #:**CYPS-310

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