9051 Mira Mesa Blvd, #910094
San Diego, CA 92191
Tel: 760-390-3989

KGF 2 Human

Keratinocyte Growth Factor-2 Human Recombinant
GRF0193

Product Overview

Name	KGF 2 Human
Description	
Keratinocyte Growth Factor-2 Human Recombinant	
Accession (Primary)	O15520
Synonyms	
FGFA, FGF10, FGF-10, KGF-2, Fibroblast growth factor 10.	
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 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.	
Source	
Escherichia Coli.	
Physical Appearance	
Sterile Filtered White lyophilized (freeze-dried) powder.	
Formulation	
Lyophilized from a 0.2um filtered concentrated (1mg/ml) solution in PBS, pH 7.4.	
Stability	
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.	
Purity	
Greater than 96.0% as determined by: (a) Analysis by RP-HPLC. (b) Analysis by SDS-PAGE.	
Amino acid sequence	

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MLGQDMVSPE ATNSSSSSFS SPSSAGRHVR SYNHLQGDVR WRKLFSFTKY FLKIEKNGKV SGTKKENCPY SILEITSVEI GVVAVKAINS NYYLAMNKKG KLYGSKEFNN DCKLKERIEE NGYNTYASFN WQHNGRQMYV ALNGKGAPRR GQKTRRKNTS AHFLPMVVHS.

Biological Activity

The ED 50 , calculated by the dose-dependant stimulation of FGF receptors by BaF3 indicator cells (measured by 3 H-thymidine uptake) is < 0.5 ng/ml, corresponding to a specific activity of 2x10 6 units/mg.

Solubility

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

Protein content

Protein quantitation was carried out by two independent methods: 1. UV spectroscopy at 280 nm using the absorbency value of 1.79 as the extinction coefficient for a 0.1% (1mg/ml) solution. This value is calculated by the PC GENE computer analysis program of protein sequences (IntelliGenetics). 2. Analysis by RP-HPLC, using a standard solution of FGF-10 as a Reference Standard.

Precautions

KGF 2 Human is for research use only and not for use in diagnostic or therapeutic procedures.

Target Information: (O15520)