
Product Data Sheet

Product Name: KGF Human
 Cat. No.: GP20678
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped at Room temp.
Synonyms	HBGF-7; FGF7; FGF-7; KGF.		
Amino Acid Sequence	MCNDMTPEQM ATNVNCSSPE RHTRSYDYME GGDIVRRRLF CRTQWYLRID KRGKVKGTQE MKNNYNIMEI RTVAVGIVAI KGVSEFYLA MNKEGKLYAK KECNEDCNFK ELILENHYNT YASAKWTHNG GEMFVALNQK GIPVRGKGTK KEQKTAHFLP MAIT.		
Solubility	It is recommended to reconstitute the lyophilized Keratinocyte Growth Factor in sterile 18MΩ-cm H ₂ O not less than 100μg/ml, which can then be further diluted to other aqueous solutions.		
Formulation	Lyophilized from a 0.2μm filtered solution in 20mM PB, pH 8.0, 1M NaCl.		

Introduction

KGF 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. FGF7 is a potent epithelial cell-specific growth factor, whose mitogenic activity is predominantly exhibited in keratinocytes but not in fibroblasts and endothelial cells. Studies of mouse and rat homologs of this gene implicated roles in morphogenesis of epithelium, reepithelialization of wounds, hair development and early lung organogenesis.

Biological Activity

The biological activity was determined by the dose-dependent stimulation of thymidine uptake by BaF3 cells expressing KGF receptors yielding an ED₅₀ <10ng/ml, corresponding to a Specific Activity of 1.06[±]10⁵ IU/mg.

Caution: Product has not been fully validated for medical applications. For research use only.

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Stability

Lyophilized Keratinocyte Growth Factor1 although stable at room temperature for 3 weeks, should be stored desiccated below -18°C . Upon reconstitution FGF7 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.

Background

Keratinocyte Growth Factor-1 Human Recombinant produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 164 amino acids and having a molecular mass of 18995 Dalton. The FGF-7 is purified by proprietary chromatographic techniques.

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