
Product Data Sheet

Product Name: KGF 2 Rat
 Cat. No.: GP20684
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped at Room temp.
Synonyms	FGFA; FGF10; FGF-10; KGF-2; Fibroblast growth factor 10.		
Amino Acid Sequence	QALGQDMVSP EATNSSSSSS SSSSSSSFSS PSSAGRHVRS YNHLQGDVRW RKLFSFTKYF LKIEKNGKVS GTKKENCYPYS ILEITSVEIG VVAVKAINSN YYLAMNKKGK LYGSKEFNND CKLKERIEEN GYNTYASFNW QHNGRQMYVA LNGKGAPRRG QKTRRKNTSA HFLPMVVHS		
Solubility	It is recommended to reconstitute the lyophilized KGF 2 Rat Recombinant in sterile 18M-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 concentrated solution in 16 ^L PBS, pH 7.4 containing 5% trehalose.		

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 limb bud formation. This gene is also implicated to be a primary factor in the process of wound healing.

Biological Activity

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

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

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is <0.5ng/ml.

Stability

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.

Background

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.

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