



Keratinocyte Growth Factor-2, mouse recombinant (rmKGF-2)

Catalog No: 97527
Lot No: XXXXX
Source: *E. coli*
Synonyms: FGFA, FGF10, FGF-10, KGF-2, Fibroblast growth factor 10

Background

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.

Description

Keratinocyte Growth Factor-2 mouse recombinant produced in *E. coli* is a single, non-glycosylated polypeptide chain containing 173 amino acids and having a molecular mass of 19.5 kDa. KGF 2 is purified by proprietary chromatographic techniques.

Physical Appearance

Sterile filtered white lyophilized (freeze-dried) powder.

Formulation

Lyophilized from a 0.2 µm filtered concentrated solution in 1xPBS, pH 7.4 containing 5% trehalose.

Solubility

It is recommended to reconstitute the lyophilized KGF-2 in sterile 18 MΩ-cm H₂O not less than 100 µg/ml, which can then be further diluted to other aqueous solutions.

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.

Purity

Greater than 97.0% as determined by (a) Analysis by RP-HPLC, (b) Analysis by SDS-PAGE.

Amino Acid Sequence

QALGQDMVSQ EATNCSSSSS SFSSPSSAGR HVRSYNHLQG DVRWRRLLFSF TKYFLTIEKN GKVSGTKNED CPYSVLEITS
VEIGVVAVKA INSNYLAMN KKGKLYGSKE FNNDCKLKER IEENGYNTYA SFNWQHNGRQ MYVALNGKGA PRRGQKTRRK
NTSAHFLPMT IQT

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 is <0.5 ng/ml.

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