



Keratinocyte Growth Factor, HEK, human recombinant (rHuKGF-HEK)

Catalog No: 97525
Lot No: XXXXX
Source: HEK293
Synonyms: HBGF-7, FGF7, FGF-7, KGF

Background

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.

Description

Keratinocyte Growth Factor human recombinant produced in HEK cells is a glycosylated monomer, having a molecular weight range of 17-30 kDa due to glycosylation. KGF is purified by proprietary chromatographic techniques.

Physical Appearance

Sterile filtered white lyophilized (freeze-dried) powder.

Formulation

KGF was lyophilized from 1 mg/ml in 1xPBS.

Solubility

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

Stability

Lyophilized KGF, although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution KGF 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 95% as observed by SDS-PAGE.

Activity

The specific activity was determined by the dose-dependent stimulation of the proliferation of 4 MBr-5 cells (monkey epithelial cell line) and is typically 1.5 - 7.5 ng/ml corresponding to a specific activity of 133,334 - 666,667 IU/mg.

Usage

This product is offered by Biomol for research purposes only. Not for diagnostic purposes or human use. It may not be resold or used to manufacture commercial products without written approval of Biomol GmbH.

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