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- Expressversand

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Keratinocyte Growth Factor-2, His Tag, human recombinant (rHuKGF-2-His)

Catalog No: 97526
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 human recombinant produced in *E. coli* is a single, non-glycosylated polypeptide chain containing 196 amino acids (38-208) and having a molecular mass of 22.0 kDa. KGF 2 is fused to a 25 amino acid His Tag at N-terminus and is purified by proprietary chromatographic techniques.

Physical Appearance

Sterile filtered colorless solution.

Formulation

The KGF-2 solution (0.25 mg/ml) contains 20 mM Tris-HCl buffer (pH 8.0), 200 mM NaCl, 2 mM DTT, 2 mM EDTA and 50% glycerol.

Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

Purity

Greater than 95% as determined by SDS-PAGE.

Amino Acid Sequence

MGSSHHHHHH SSSLVPRGSH MGSQMALGQ DMVSPEATNS SSSSFSSPSS AGRHVRSYNH LQGDVWRKRL FSFTKYFLKI
EKNGKVSGTK KENCYPYSILE ITSVEIGVVA VKAINSYYL AMNKKGKLYG SKEFNNDCKL KERIEENGYN TYASFNWQHN
GRQMYVALNG KGAPRRGQKT RRKNTSAHFL PMVVHS

Usage

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