KGF Human E. coli

Product Data Sheet

Type: Recombinant
Source: E. coli
Species: Human
Other names: Keratinocyte Growth Factor, Fibroblast Growth Factor-7, HBGF-7

Cat. No.:

RBG10198002	(2 µg)
RBG10198010	(10 µg)
RBG10198100	(100 µg)

Description

KGF/FGF-7 is one of 23 known members of the FGF family. Proteins of this family play a central role during prenatal development, postnatal growth, and the regeneration of a variety of tissues, by promoting cellular proliferation and differentiation. KGF/FGF-7 is a mitogen factor specific for epithelial cells and keratinocytes. KGF/FGF-7 signals through FGFR 2b. KGF/FGF-7 plays a role in kidney and lung development, as well as in angiogenesis and wound healing. Recombinant Human KGF/FGF-7 is an 18.9 kDa protein consisting of 163 amino acid residues.

Research topic

Cardiovascular disease, Coronary artery disease

Amino Acid Sequence

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CNDMTPEQMA TNVNCSSPER HTRSYDYMEG GDIRVRRLFC RTQWYLRIDK RGKVKGTQEM KNNYNIMEIR TVAVGIVAIK
GVESEFYLAM NKEGKLYAKK ECNEDCNFKE LILENHYNTY ASAKWTHNGG EMFVALNQKG IPVRGKKTKK EQKTAHFLPM AIT
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Source

E. coli

Purity

95%

Biological Activity

The ED_{50} as determined by the dose-dependent stimulation of thymidine uptake by KGF-responsive BaF3 cells is ? 10 ng/ml, corresponding to a specific activity of ? 1×10^5 units/mg.

Endotoxin

Endotoxin level is <0.1 ng/µg of protein (<1EU/µg).

Reconstitution

Centrifuge the vial prior to opening. Reconstitute in 1× PBS to a concentration of 0.1-1.0 mg/ml. Do not vortex. For extended storage, it is recommended to further dilute in a buffer containing a carrier protein (example 0.1% BSA) and store in working aliquots at-20°C to -80°C.

Storage, Stability/Shelf Life

-20°C

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