

Product: Keratinocyte Growth Factor-2, Human Recombinant
Catalog #: 11-KGF-2H
Amount: 5 µg

DESCRIPTION: Recombinant Human Keratinocyte Growth Factor-2 (FGF-10) (rHuKGF-2)
rHuKGF-2 is a single, non-glycosylated, polypeptide chain containing 170 amino acids and having a molecular mass of 19300 Dalton. rHuKGF-2 is highly related to KGF-1(FGF-7), it binds to the same receptor as KGF-1 and shares 57% sequence homology.
rHuKGF-2 is purified by proprietary chromatographic techniques.
The sequence of the first five N-terminal amino acids was determined and was found to be Met-Leu-Glu-Gln-Asp.

SOURCE: *E.Coli* Expression System

PURITY: Greater than 95.0% as determined by:
(a) Analysis by RP-HPLC.
(b) Anion-exchange FPLC.
(c) Analysis by reducing and non-reducing SDS-PAGE Silver-Stained gel.

ENDOTOXIN: Less than 0.1 ng/µg (IEU/µg) of rHuKGF-2

DIMERS & AGREGATES: Less than 1% as determined by silver-stained SDS-PAGE gel analysis

FORM: Purified

PROTEIN CONTENT: Protein quantitation was carried out by two independent methods:
1. UV spectroscopy at 280 nm using the absorbency value of 0.502 as the extinction coefficient for a 0.1% (1 mg/ml) solution. This value is calculated by the PC GENE computer analysis program of protein sequences (IntelliGenetics).
2. Analysis by RP-HPLC, using a calibrated solution of KGF as a Reference Standard.

STORAGE: -20°C (aliquot), avoid repeated freeze and thaw cycles.

BIOLOGICAL ACTIVITY: rHuKGF-2 is fully biologically active when compared to standards.
The ED50, calculated by the dose-dependant stimulation of KGF-responsive BaF3 indicator cells (measured by ³H-thymidine uptake) is < 0.5ng/ml corresponding to a specific activity of 2x10⁶ Units/mg.

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