

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

DESCRIPTION: Recombinant Human Keratinocyte Growth Factor (rHuKGF)
rHuKGF is a single, non-glycosylated, polypeptide chain containing 164 amino acids and having a molecular mass of 18995 Dalton.
rHuKGF is purified by proprietary chromatographic techniques.
The sequence of the first five N-terminal amino acids was determined and was found to be Met-Cys-Asn-Asp-Met.

SOURCE: *E.Coli* Expression System

PURITY: Greater than 98.0% 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

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% (1mg/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 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 < 10ng/ml corresponding to a specific activity of 10⁵ Units/mg.
rHuKGF biological activity was measured by the KGF's mitogenic activity on BaF3 cells expressing the KGF receptor

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