



## Recombinant KGF

## Datasheet

**Catalog Number:** PR27047

**Product Type:** Recombinant Protein

**Source:** E.Coli

**Amino Acid Sequence:** The sequence of the first five N-terminal amino acids was determined and was found to be Met-Cys-Asn-Asp-Met.

**Description:** Keratinocyte Growth Factor-1 Human Recombinant produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 164 amino acids and having a molecular mass of 18995 Dalton. The FGF-7 is purified by proprietary chromatographic techniques.

**Protein Content:** Protein quantitation was carried out by two independent methods:  
1. UV spectroscopy at 280 nm using the absorbency value of 0.9 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

**Biological Activity:** 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. ProSpec's Keratinocyte Growth Factor biological activity was measured by the KGF's mitogenic activity on BaF3 cells expressing the KGF receptor.

**Purity:** Greater than 98.0% as determined by:  
(a) Analysis by RP-HPLC.  
(b) Analysis by SDS-PAGE.

**Format:** The protein was lyophilized from a concentrated (1mg/ml) solution with no additives.

**Reconstitution:** It is recommended to reconstitute the lyophilized Keratinocyte Growth Factor in sterile 18Mw-cm H2O not less than 100µg/ml, which can then be further diluted to other aqueous solutions.

**Storage:** Lyophilized Keratinocyte Growth Factor1 although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution FGF7 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 avoid freeze-thaw cycles.**

### FOR RESEARCH USE ONLY

NEUROMICS' REAGENTS ARE FOR IN VITRO AND CERTAIN NON-HUMAN IN VIVO EXPERIMENTAL USE ONLY AND NOT INTENDED FOR USE IN ANY HUMAN CLINICAL INVESTIGATION, DIAGNOSIS, PROGNOSIS, OR TREATMENT. THE ABOVE ANALYSES ARE MERELY TYPICAL GUIDES. THEY ARE NOT TO BE CONSTRUED AS BEING SPECIFICATIONS. ALL OF THE ABOVE INFORMATION IS, TO THE BEST OF OUR KNOWLEDGE, TRUE AND ACCURATE. HOWEVER, SINCE THE CONDITIONS OF USE ARE BEYOND OUR CONTROL, ALL RECOMMENDATIONS OR SUGGESTIONS ARE MADE WITHOUT GUARANTEE, EXPRESS OR IMPLIED, ON OUR PART. WE DISCLAIM ALL LIABILITY IN CONNECTION WITH THE USE OF THE INFORMATION CONTAINED HEREIN OR OTHERWISE, AND ALL SUCH RSKS ARE ASSUMED BY THE USER. WE FURTHER EXPRESSLY DISCLAIM ALL WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.

7/07v1

[www.neuromics.com](http://www.neuromics.com)

Neuromics Antibodies • 5325 West 74<sup>th</sup> Street, Suite 8 • Edina, MN 55439  
phone 866-350-1500 • fax 612-677-3976 • e-mail [pshuster@neuromics1.com](mailto:pshuster@neuromics1.com)