

TECHNICAL DATA SHEET

Human KGF / FGF-7

Human Keratinocyte Growth Factor, recombinant

Synonyms: Fibroblast Growth Factor-7, HBGF-7

PLEASE NOTE: ALWAYS CENTRIFUGE VIAL BEFORE OPENING

Size	Order #	Lot #	Expiry Date*
10µg	W 1375950010	3510040900	May 2011

Description

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

- **Biological activity** $\geq 1 \times 10^5$ units/mg
- **Source** *E. coli*
- **Purity** $\geq 95\%$ (SDS-PAGE, HPLC)
- **Endotoxin level** $\leq 0.1\text{ng}/\mu\text{g}$ ($\leq 1\text{EU}/\mu\text{g}$)
- **Stabilizer** None
- **Buffer** Sodium Phosphate (15mM, pH 7.0) + NaCl (0.25M)
- **Physical state** Sterile filtered, lyophilized

Biological activity

The ED₅₀ of ≤ 10 ng/ml was determined by the dose-dependent stimulation of thymidine uptake by KGF-responsive BaF3 cells. It corresponds to a specific activity of $\geq 1 \times 10^5$ units/mg.

Reconstitution

We recommend a quick spin follow by reconstitution in PBS to a concentration of 0.5-1.0 mg/ml. This solution can then be diluted into other aqueous buffers and stored at 4°C for 1 week or -20°C for future use. Repeated freeze thaw cycles will result in some loss of activity.

Stability

The lyophilized protein is stable for at least 2 years from date of receipt at -20°C. Reconstituted KGF is stable for at least 3 months when stored in working aliquots with a carrier protein at -20°C. **Please avoid repeated freeze/thaw cycles.**

Usage*FOR RESEARCH USE ONLY**NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES*

* For lyophilized product if stored as indicated. Please contact our technical support if the product has expired.

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