

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*
2µg	W 1375950002	3510040900	November 2012

Description

Recombinant human Keratinocyte Growth Factor (KGF / FGF-7) is an 18.9 kDa protein containing 163 amino acid residues. It 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** $\geq 1.0 \times 10^5$ units/mg
- **Source** *E. coli*
- **Purity** ≥ 95 % (SDS-PAGE, HPLC)
- **Endotoxin level** ≤ 0.1 ng/µg (≤ 1 EU/µg)
- **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 $\geq 1.0 \times 10^5$ units/mg.

Reconstitution

We recommend a quick spin followed by reconstitution in 1xPBS to a concentration of 0.1-1.0 mg/ml. *Do not vortex*. This solution can be stored at 2-8°C for up to 1 week. 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.

Stability

The lyophilized protein is stable at room temperature for up 1 month. Working aliquots stored with a carrier protein are stable for at least 3 months at -20°C to -80°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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