



BIOCHROM^{AG}

TECHNICAL DATA SHEET

Human FGF-10

Human Fibroblast Growth Factor-10, recombinant

PLEASE NOTE: ALWAYS CENTRIFUGE VIAL BEFORE OPENING

Size **Order #**
25µg W 1379950025

Lot #
3505031620

Expiry Date*
September 2010

Description

Recombinant human FGF-10 is a 19.3 kDa protein containing 170 amino acid residues. FGF-10 is a heparin binding growth factor that is a member 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. FGF-10 is most related to KGF/FGF-7 and is expressed during the development and preferentially in adult lungs. It signals through the FGFR 2b.

- **Biological activity** $\geq 2 \times 10^6$ 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 (5mM, pH 7.4) and NaCl (80mM)
- **Physical state** Sterile filtered, lyophilized

Biological activity

The ED₅₀ of ≤ 0.5 ng/ml was determined by the dose-dependent stimulation of thymidine uptake by BaF3 cells expressing FGF receptors. It corresponds to a specific activity of $\geq 2 \times 10^6$ units/mg.

Reconstitution

We recommend a quick spin follow by reconstitution in Sodium Phosphate (5mM; pH 7.4) to a concentration of 0.1-1-0 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 FGF-10 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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