

## Human FGF-10 / KGF-2, cct-premium

Human Fibroblast Growth Factor-10, Keratinocyte Growth Factor-2, recombinant

Synonyms: FGF10, KGF2, KGF-2, FGFA.

**PLEASE NOTE: ALWAYS CENTRIFUGE VIAL BEFORE OPENING**

Size	Order #	Lot #	Expiry Date
10 µg	4735.950.010		
25 µg	4735.950.025		
50 µg	4735.950.050		
100 µg	4735.950.100		
250 µg	4735.950.250		
500 µg	4735.950.500		
1 mg	4735.950.199		

Please enquire for bulk quantities and other vial sizes

### Description

Recombinant Human Fibroblast Growth Factor-10 (FGF-10 or KGF-2) is a 170 amino acid protein, with a molecular mass of 19,3 kDa. It is a heparin-binding growth factor belonging to the fibroblast growth factor (FGF) family most related to KGF/FGF-7. FGF family members possess extensive mitogenic and cell survival functions, and are involved in various biological processes, including embryonic development, cell growth, morphogenesis, tissue repair, tumor growth and invasion. FGF-10 is expressed during development and preferentially in adult lungs. It signals through FGFR 2b.

- **Biological Activity**  $\geq 2 \times 10^6$  units/mg
- **Source** *E. Coli*
- **Purity**  $\geq 95\%$  (SDS-PAGE, silver stained)
- **Endotoxin level**  $\leq 0.01$  ng/µg of protein ( $\leq 0.1$  EU/µg)
- **Stabilizer** None
- **Buffer** PBS (0,5x)\*
- **Physical state** Sterile filtered, lyophilized

### Biological Activity

Assay 1: The ED<sub>50</sub> of  $\leq 0.5$  ng/ml was determined by the dose-dependent stimulation of thymidine uptake of BaF3 cells expressing FGFRs. It corresponds to a specific activity of  $\geq 2.0 \times 10^6$  units/mg.

Assay 2: An ED<sub>50</sub> of 0,5-1,0 ng/ml was determined by the FGF-10 induced proliferation of 4MBr-5 cells.

### Reconstitution

We recommend a quick spin followed by reconstitution in water to a concentration of at least 50 µg/ml. **Do not vortex.** This solution can be stored at 2-8°C for up to 1 week or in working aliquots at -20°C to -80°C. Working aliquots should be at the highest practical concentration. For long term storage we recommend to add at least 0.1% HSA (order number: [2835.955.xyz](#) or [2835.958.xyz](#)) or [BSA](#).

### Stability

The lyophilized protein is stable at room temperature for up to 1 month and at least until the lot specific expiry date if kept below -18°C. Reconstituted FGF-10 should be stored in working aliquots at -20°C to -80°C if possible with carrier protein. **Please avoid repeated freeze-thaw cycles.**

### Amino Acid Sequence

MLGQDMVSPE ATNSSSSSFS SPSSAGRHRV SRYNHLQGDVR WRKLFSTFKY FLKIEKNGKV SGTKKENCYPY  
 SILEITSVEI GVVAVKAINS NYLAMNKKG KLYGSKEFNN DCKLKERIEE NGYNTYASFN WQHNGRQMYV  
 ALNGKGAPRR GQKTRRKNTS AHFLPMVVHS

\*The Buffer may vary depending on the Lot #. Please contact our technical support if you have specific requirements.

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Usage: For research use only. Not for use in diagnostic or therapeutic procedures. Not for human use.

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