

Human FGF-22

Human Fibroblast Growth Factor-22, recombinant

Synonyms: Fibroblast growth factor 22

PLEASE NOTE: ALWAYS CENTRIFUGE VIAL BEFORE OPENING

Size	Order #	Lot #	Expiry Date
2 µg	1386.950.002		
10 µg	1386.950.010		
1 mg	1386.950.199		

Please enquire for bulk quantities and other vial sizes

Description

Recombinant Human Fibroblast Growth Factor-22 (FGF-22) is a 149 amino acid protein, with a molecular mass of 17,3 kDa. It is a secreted heparin-binding growth factor belonging to the fibroblast growth factor (FGF) family. 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. The mouse homolog of this gene was found to be preferentially expressed in the inner root sheath of the hair follicle, which suggested a role in hair development.

- **Biological Activity** see below
- **Source** *E. Coli*
- **Purity** ≥ 97 % (SDS-PAGE, RP-HPLC)
- **Endotoxin level** ≤ 0.1ng/µg (≤ 1EU/µg)
- **Stabilizer** None
- **Buffer** None*
- **Physical state** Sterile filtered, lyophilized

Biological Activity

An ED₅₀ of 50-250 ng/ml was determined by the FGF-22 induced proliferation of 4MBr-5 rhesus monkey epithelial cells.

Reconstitution

We recommend a quick spin followed by reconstitution in water to a concentration of at least 100 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-9 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

MTPSASRGPR SYPHLEGDVR WRRLFSSTHF FLRVDPGGRV QGTRWRHGQD SILEIRSVHV GVVVIKAVSS
GFYVAMNRRG RLYGSRLYTV DCRFRERIEE NGHNTYASQR WRRRGQPMFL ALDRRGGPRP GGRTRRYHLS
AHFLPVLVS

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

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

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