



Fibroblast Growth Factor-22, human recombinant (rHuFGF-22)

Catalog No: 87351
Lot No: XXXXX
Source: *E. coli*
Synonyms: Fibroblast growth factor 22, FGF-22

Background

FGF22 is a member of the fibroblast growth factor (FGF) family. FGF family members possess broad mitogenic and cell survival activities and are involved in a variety of 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.

Description

Fibroblast Growth Factor-22 human recombinant produced in *E. coli* is a single, non-glycosylated polypeptide chain containing 149 amino acids and having a molecular mass of 17.3 kDa. FGF-22 is purified by chromatographic techniques.

Physical Appearance

Sterile filtered white lyophilized powder.

Formulation

The sterile protein powder is lyophilized with no additives.

Solubility

It is recommended to reconstitute the lyophilized FGF-22 sterile 18 M Ω -cm H₂O not less than 100 μ g/ml, which can then be further diluted to other aqueous solutions.

Stability

Lyophilized Fibroblast Growth Factor 22, although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution FGF-22 should be stored at 4°C between 2-7 days and for future use below -18°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.

Purity

Greater than 97.0% as determined by (a) Analysis by RP-HPLC, (b) Analysis by SDS-PAGE.

Amino Acid Sequence

MTPSASRGPR SYPHLEGDVR WRRLFSSSTHF FLRVDPGGRV QGTRWRHGQD SILEIRSVHV GVVVIKAVSS GFYVAMNRRG
RLYGSRLYTV DCRFRERIEE NGHNTYASQR WRRRGQPMFL ALDRGGGPRP GGRTRRYHLS AHFLPVLV

Usage

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