



Fibroblast Growth Factor-4, human recombinant (rHuFGF-4)

Catalog No: 97379
Lot No: XXXXX
Source: *E. coli*
Synonyms: HBGF4, FGF-4, FGF4, KFGF, HSTF1

Background

FGF4 holds a comprehensive mitogenic and cell survival activities and takes part in a range of biological processes including embryonic development, cell growth, morphogenesis, tissue repair, tumor growth and invasion. FGF4 possess oncogenic transforming activity. FGF4 and FGF3, oncogenic growth factors are localized on chromosome 11. Co-amplification of both factors was found in several kinds of human tumors. FGF4 functions in bone morphogenesis and limb development through the sonic hedgehog (SHH) signaling pathway.

Description

FGF-4 human recombinant produced in *E. coli* is a single, non-glycosylated, polypeptide chain containing 182 amino acids and having a molecular mass of 19.8 kDa. FGF4 is purified by proprietary chromatographic techniques.

Physical Appearance

Sterile filtered white lyophilized (freeze-dried) powder.

Formulation

The FGF4 protein was lyophilized with 0.5 x PBS, pH 7.4.

Solubility

It is recommended to reconstitute the lyophilized FGF-4 in 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 FGF4, although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution FGF-4 should be stored at 4°C between 2-7 days and for future use below -18°C. Please prevent freeze-thaw cycles.

Purity

Greater than 95.0% as determined by SDS-PAGE.

Amino Acid Sequence

GRGGAAAPTA PNGTLEAELE RRWESLVALS LARLPVAAQP KEAAVQSGAG DYLLGIKRLR RLYCNVIGIGF HLQALPDGRI
GGAHADTRDS LLELSPVERG VVSIFGVASR FVAMSSKGGK LYGSPFFTDE CTFKEILLPN NYNAYESYKY PGMFIALSKN
GKTKKGNRVS PTMKVTHFLP RL

Activity

Fully biologically active when compared to standard. The ED50 as determined by the dose-dependent stimulation of thymidine uptake by BaF3 cells expressing FGF receptors is 0.5 ng/ml, corresponding to a specific activity of 2,000,000 units/mg.

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