
Product Data Sheet

Product Name: FGF4 Human
 Cat. No.: GP20220
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped at 2-8°C.
Synonyms	HBGF4; FGF-4; FGF4; KFGF; HSTF1.		
Amino Acid Sequence	GRGGAAAPTA PNGTLEAELE RRWESLVALS LARLPVAAQP KEAAVQSGAG DYLLGIKRLR RLYCNVGIGF HLQALPDGRI GGAHADTRDS LLELSPVERG VVSIFGVASR FFVAMSSKGK LYGSPFFTDE CTFKEILLPN NYNAYESYKY PGMFIALSKN GKTKKGNRVS PTMKVTHFLP RL.		
Solubility	It is recommended to reconstitute the lyophilized FGF4 Human Recombinant sterile 18MΩ-cm H ₂ O not less than 100μg/ml, which can then be further diluted to other aqueous solutions.		
Formulation	Lyophilized after extensive dialysis against 50 mM HEPES, 750 mM NaCl, pH 7.5.		

Introduction

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.

Biological Activity

ED₅₀ < 0.5 ng/ml, measured in a cell proliferation assay using 3T3 cells, corresponding to a specific activity of > 2.0 × 10⁶ U/mg.

Stability

Caution: Product has not been fully validated for medical applications. For research use only.

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Upon receiving, this product remains stable for 6 months at lower than -70°C . Upon reconstitution, the product should be stable for 1 week at 4°C or for 3 months at -20°C . For long term storage it is recommended that a carrier protein (example 0.1% BSA) be added. Avoid repeated freeze-thaw cycles.

Background

FGF4 Human Recombinant produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 182 amino acids and having a molecular mass of 19.8kDa. The FGF4 is purified by proprietary chromatographic techniques.

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