

Overview

Synonyms	HBGF-4; HST; HST-1; HSTF1; K-FGF; KFGF.
Description	Fibroblast Growth Factor-4 (FGF-4) also known as K-FGF is a heparin-binding growth factor of the FGF family. It was identified by its oncogenic transforming activity. FGF-4 and FGF-3 are located closely on chromosome 11. FGF-4 and its receptors (FGF R1c, 2c, 3c and 4) play an important role in the regulation of embryonic development, cell proliferation, and cell differentiation. FGF-4 is required for normal limb and cardiac valve development during embryogenesis. Recombinant human Fibroblast Growth Factor-4 (rhFGF-4) produced in <i>E. coli</i> is a single non-glycosylated polypeptide chain containing 177 amino acids. A fully biologically active molecule obtained by proprietary chromatographic techniques, rhFGF-4 has a molecular mass of 19.4kDa as analyzed by reducing SDS-PAGE.
Species	Human
Source	<i>E. coli</i>
Biological Activity	ED ₅₀ <0.5ng/ml, measured in a cell proliferation assay using 3T3 cells, corresponding to a specific activity of >2.0× 10 ⁶ units/mg.
Sequence	MAPTAPNGTL EAELERRWES LVALSLARLP VAAQPKEAAV QSGAGDYLLG IKRLRRLYCN VGIGFHLQAL PDGRIGGAHA DTRDSLLELS PVERGVVSIF GVASRFFVAM SSKGKLYGSP FFTDECTFKE ILLPNNYNAY ESYKYPGMFI ALSKNGKTKK GNRVSPMKV THFLPRL

Properties

Measured Molecular Weight	19.4kDa, observed by reducing SDS-PAGE.
Purity	> 95% by SDS-PAGE and HPLC analyses.
Formulation	Lyophilized after extensive dialysis against 50mM HEPES, 750mM NaCl, pH7.5.
Reconstitution	Reconstituted in ddH ₂ O at 100 µg/ml.
Endotoxin Level	<0.2 EU/µg, determined by LAL method.
Storage	Lyophilized recombinant human Fibroblast Growth Factor-4 (rhFGF-4) remains stable up to 6 months at lower than -70°C from date of receipt. Upon reconstitution, rhFGF-4 should be stable up to 2 weeks at 4°C or up to 3 months at -20°C.
Note	For research use only

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