



Technical Data Sheet

Recombinant Human Fibroblast Growth Factor-4 (rHuFGF-4)

Human Fibroblast Growth Factor-4

FGF4, also named FGF-K and K-FGF, belongs to the fibroblast growth factor (FGF) family. By signaling through the FGF R1c, 2c, 3c and 4 receptors, FGF-4 has functions that maintain a population of progenitor cells in the epiblast that generates mesoderm, and contribute to the stem cell population that is incorporated in the tailbud. It is also required for axial elongation of the mouse embryo after gastrulation. Mature human FGF-4 (71-206 a.a.) shares 91 %, 82 %, 94 % and 91 % a.a. identity with murine, rat, canine and bovine FGF-4. Additionally, FGF-4 shares about 30 % sequence identity with the prototypical members of the FGF family.

Catalog Number:	RC215-15
Source:	<i>Escherichia coli</i> .
Molecular Weight:	Approximately 19.8 kDa, a single non-glycosylated polypeptide chain containing 182 amino acids.
Quantity:	5µg/25µg/1000µg
AA Sequence:	GRGGAAAPTA PNGTLEAELE RRWESLVALS LARLPVAAQP KEAAVQSGAG DYLLGIKRLR RLYCNAVIGIF HLOALPDGRI GGAHADTRDS LLELSPVERG VVSIFGVASR FFVAMSSK GK LYGSPFFTDE CTFKEILLPN NYNAYESYKY PGMFIALSKN GKTKKGNRVS PTMKVTHFLP RL
Purity:	> 96 % by SDS-PAGE and HPLC analyses.
Biological Activity:	Fully biologically active when compared to standard. The ED ₅₀ as determined by thymidine uptake assay using FGF-receptors transfected BaF3 cells is less than 0.5 ng/ml, corresponding to a specific activity of > 2.0 × 10 ⁶ IU/mg.
Physical Appearance:	Sterile Filtered White lyophilized (freeze-dried) powder.
Formulation:	Lyophilized from a 0.2 µm filtered concentrated solution in 1 × PBS, pH 7.4, 300 mM NaCl.
Endotoxin:	Less than 1 EU/µg of rHuFGF-4 as determined by LAL method.
Reconstitution:	We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute in sterile distilled water or aqueous buffer containing 0.1 % BSA to a concentration of 0.1-1.0 mg/mL. Stock solutions should be apportioned into working aliquots and stored at ≤ -20 °C. Further dilutions should be made in appropriate buffered solutions.



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Storage:

This lyophilized preparation is stable at 2-8 °C, but should be kept at -20 °C for long term storage, preferably desiccated. Upon reconstitution, the preparation is stable for up to one week at 2-8 °C. For maximal stability, apportion the reconstituted preparation into working aliquots and store at -20 °C to -70 °C. Avoid repeated freeze/thaw cycles.

Usage:

This material is offered by Bio Basic Inc for research, laboratory or further evaluation purposes. NOT FOR HUMAN USE.