

PRODUCT DATA SHEET



Bioworld Technology, Inc.

Recombinant FGF-4, Human

Catalog Number: BK0042-25µg

Source: Escherichia coli.

Quantity: 25µg

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 E.coli is a single non-glycosylated polypeptide chain containing 177 amino acids. A fully biologically active molecule obtained by proprietary chromatographic techniques at GenScript, rhFGF-4 has a molecular mass of 19.4kDa as analyzed by reducing SDS-PAGE.

Molecular Weight:

19.4kDa, observed by reducing SDS-PAGE.

Purity:

> 95% by SDS-PAGE and HPLC analyses.

Biological Activity:

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

Physical Appearance:

Sterile Filtered White lyophilized (freeze-dried) powder.

Formulation:

Lyophilized after extensive dialysis against 50mM HEPES, 750mM NaCl, pH7.5.

AA Sequence:

MAPTAPNGTLE-
AELERRWESLVALSLARLPVAAQP-
KEAAVQSGAGDYLLGIKRLRRLYC-
NVGIGFHLQALPDGRIGGAHADTRDSLLEL-
SPVERGVVSIFGVASRFFVAMSSKGKLYG-
SPFFTDECTFKEILLPNNYNAYESYKYPGM-
FIALSKNGKTKKGNRVSPMKVTHFLPRL

Endotoxin:

< 0.2 EU/µg, determined by LAL method.

Reconstitution:

Reconstituted in ddH₂O at 100 µg/ml.

Storage:

Lyophilized recombinant human Fibroblast Growth Factor-4 (rhFGF-4) remains stable up to 6 months at -80 °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.

Usage:

This material is offered by USA Bioworld biotech for research, laboratory or further evaluation purposes. For research use only.