

BACKGROUND

Fibroblast Growth Factor 4 (FGF-4) is a growth factor predominantly expressed during embryonic development, playing a key role in limb development. In culture, FGF-4 has been shown to be an important growth factor for fibroblasts and endothelial cells. Human FGF-4 shares high homology and cross-reactivity with the mouse protein.

Recombinant human FGF-4 is a non-glycosylated protein containing 177 amino acids and having a total molecular mass of 19 kDa.

Alternative Names:

Transforming protein KS3, HBGF-4, HST-1

Amino Acid Sequence:

MAPTAPNGTL EAELERRWES LVALSLARLP VAAQPKEAAV
QSGAGDYLLG IKRLRRLYCN VGIGFHLQAL PDGRIGGAHA
DTRDSLLELS PVERGVVSIF GVASRFFVAM SSKGKLYGSP
FFTDECTFKE ILLPNNYNAY ESYKYPGMFI ALSKNGKTKK
GNRVSPMKV THFLPRL

TECHNICAL INFORMATION

Source: *E.coli*

Physical Appearance:

Sterile Filtered white lyophilized (freeze-dried) powder.

Formulation:

Recombinant human FGF-4 is lyophilized with 0.5 x PBS, pH 7.5.

Stability:

Lyophilized product is very stable at -20°C. Reconstituted material should be aliquoted and frozen at -20°C. It is recommended that a carrier protein (0.1% HSA or BSA) is added for long term storage.

Reconstitution:

Centrifuge vial before opening. When reconstituting the product, gently pipet and wash down the sides of the vial to ensure full recovery of the protein into solution. It is recommended to reconstitute the lyophilized product with sterile water at a concentration of 0.1 mg/ml, which can be further diluted into other aqueous solutions.

Protein Content and Purity determined by:

- UV spectroscopy at 280 nm
- RP-HPLC calibrated against a known standard
- Quantitation against a known standard via reducing and non-reducing SDS-PAGE gels.

Endotoxin Level:

Endotoxin level, as measured by LAL analysis, is <0.01ng/ug or <0.1EU/ug.

Biological Activity:

The activity is determined by its ability to induce the proliferation of mouse NR6R-3T3 fibroblasts and is typically 0.25-1.25 ng/mL.

Products are for research use only. They are not intended for human, animal, or diagnostic applications.

