



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

Catalog Number: 100-31
Accession Number: P08620

Specifications and Uses:

Alternate Names: Transforming protein KS3, HBGF-4, HST-1

Description:

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 regulator of growth for stem cells, fibroblasts and endothelial cells. Unglycosylated FGF-4 is N-terminally cleaved into 13 kDa or 15 kDa proteins that are more active than the precursor 19 kDa protein, Bellosa P, et al. (1993). Human FGF-4 shares high homology and cross-reactivity with the mouse protein. Recombinant human FGF-4 is a non-glycosylated protein containing 140 amino acids, with a total molecular weight of 15 kDa.

Source: *E.coli*

Physical Appearance: Sterile filtered white lyophilized (freeze-dried) powder.

Formulation and Stability:

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

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 (typically ≥ 98%) determined by:

Reducing and Non-reducing SDS-PAGE

Endotoxin Level:

Measured by kinetic LAL analysis and is typically ≤ 1 EU/μg protein.

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.

AA Sequence:

AAVQSGAGDY LLGIKRLRRL YCNVGIGFHL QALPDGRIGG AHADTRDSL ELSPVERGVV SIFGVASRFF
VAMSSKGKLY GSPFFTDECT FKEILLPNY NAYESYKYPG MFIALSKNGK TKKGNRVSP MKVTHFLPRL

THIS PRODUCT IS FOR RESEARCH USE ONLY AND IS NOT FOR USE IN HUMANS!

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