

Growth Factor Data Sheet

GoldBio growth factors are manufactured for **RESEARCH USE ONLY** and cannot be sold for human consumption!

FGF4 is a member of the Fibroblast Growth Factor family of proteins and was first identified by its oncogenic activity. It plays an important role in embryonic development, acting as an autocrine or paracrine ligand through the FGFR 1c, 2c, 3c, and 4 receptors to support stem cell self-renewal. It is believed that FGF4, with the combined activity one or more apical ectodermal ridge FGFs (FGF2, FGF4, FGF8, and FGF9) works in a positive feedback loop with SHH to control limb development.

Catalog Number	1140-04
Product Name	FGF4, Human Recombinant Human Fibroblast Growth Factor 4 Heparin Secretory Transforming Protein 1 (HSTF1) Oncogene HST Kaposi Fibroblast Growth Factor (KFGF) Transforming Protein KS3 HBGF4
Source	<i>Escherichia coli</i>
MW	~19.8 kDa (182 amino acids)
Sequence	GRGGAAAPTA PNGTLEAELE RRWESLVALS LARLPVAAQP KEAAVQSGAG DYLLGIKRLR RLYCNVGIGF HLQALPDGRI GGAHADTRDS LLELSPVERG VVSIFGVASR FVAMSSKGG LYGSPFFTDE CTFKEILLPN NYNAYESYKY PGMFIALSKN GKTKKGNRVS PTMKVTHFLP RL
Accession Number	P08620
Purity	>97% 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.
Formulation	Sterile filtered white lyophilized powder. Purified and tested for use in cell culture.
Storage/Handling	This lyophilized preparation is stable at 2-8°C, but should be kept at -20°C for long term storage. The reconstituted sample can be apportioned into working aliquots and stored at -80 °C for up to 6 months. Avoid repeated freeze/thaw cycles.
Reconstitution	The sample should be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute in a siliconized tube using PBS that contains a 0.1% BSA to a concentration of 0.1-1.0 mg/mL. Reconstituted solutions are stable for up to one week at 2-8°C. Stock solutions should be aliquoted and stored at -80°C. Further dilutions should be made in appropriate buffered solutions containing BSA or serum.