

Active Recombinant Human FGF4 (54 - 206aa)

Cat. No. FGF4-023E **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human FGF4 (Ser54 Leu206) was expressed in E. coli and produced using nonanimal reagent in an animalfree laboratory.
Species	Human
Source	E.coli
Description	FGF4, the product of a developmentally regulated gene (hst1), is a member of the FGF family that is efficiently secreted. The gene for FGF4 (also known as FGFK or KFGF for Kaposi sarcomaassociated FGF) was initially discovered as a transforming gene by the NIH 3T3 focus formation assay using DNA derived from human tumors (including stomach and colon cancers, hepatocellular carcinomas, and Kaposi's sarcomas). FGF4 does not seem to be expressed in normal adult tissues. However, expression of the gene is spatially and temporally regulated during embryonic development. In vitro, FGF4 is mitogenic for fibroblasts and endothelial cells. FGF4 has been shown to be a potent angiogenesis promoter in vivo. FGF4 has potent transforming potential apparently through an autocrine mechanism of action. FGF4 plays a key role in limb development and has been identified as the molecular mediator of the activities of the apical ectodermal ridge that is required for directing the outgrowth and patterning of vertebrate limbs.
Nterminal Sequence Analysis	Ser54, Leu55
Molecular Mass	17 kDa

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

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SDSPAGE	16 kDa, reducing conditions
Activity	Measured in a cell proliferation assay using NR6R3T3 mouse fibroblasts. The ED50 for this effect is typically 0.25 - 1.25 ng/mL.
Endotoxin Level	<1.0 EU per 1 µg of the protein by the LAL method.
Purity	>97%, by SDSPAGE under reducing conditions and visualized by silver stain.
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS. See Certificate of Analysis for details.
Reconstitution	Reconstitute at 0.2 mg/mL in sterile PBS.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.
Storage	Use a manual defrost freezer and avoid repeated freezethaw cycles. 1. 12 months from date of receipt, 20 to 70 °C as supplied. 2. 1 month, 2 to 8 °C under sterile conditions after reconstitution. 3. 3 months, 20 to 70 °C under sterile conditions after reconstitution.
Unitprot ID	P08620

GENE INFORMATION

Gene Name	FGF4 fibroblast growth factor 4 [Homo sapiens]
Official Symbol	FGF4
Synonyms	FGF4; fibroblast growth factor 4; HST; KFGF; HST-1; HSTF1; K-FGF; HBGF-4; FGF-

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4; HSTF-1; oncogene HST; kaposi sarcoma oncogene; transforming protein KS3; heparin-binding growth factor 4; heparin secretory transforming protein 1; heparin secretory-transforming protein 1; fibroblast growth factor 4 splice isoform; human stomach cancer, transforming factor from FGF-related oncogene

Gene ID 2249

mRNA Refseq NM_002007

Protein Refseq NP_001998

MIM 164980

Chromosome Location 11q13.3

Pathway Downstream signaling of activated FGFR; FGF signaling pathway; FGFR ligand binding and activation; FRS2-mediated cascade; IRS-mediated signaling; Insulin receptor signalling cascade; MAPK signaling pathway; PI3K Cascade; Regulation of actin cytoskeleton

Function fibroblast growth factor receptor binding; growth factor activity; heparin binding; protein tyrosine kinase activity

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