

Recombinant Human FGF4 Protein

Cat. No. FGF4-14H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant human FGF-4 protein without tag was expressed in E. coli. Carrier protein-free. Mass spectrometry: single species with expected mass. Recovery from stock vial: >95%
Species	Human
Source	E.coli
Description	The protein encoded by this gene is a member of the fibroblast growth factor (FGF) family. FGF family members possess broad mitogenic and cell survival activities and are involved in a variety of biological processes including embryonic development, cell growth, morphogenesis, tissue repair, tumor growth and invasion. This gene was identified by its oncogenic transforming activity. This gene and FGF3, another oncogenic growth factor, are located closely on chromosome 11. Co-amplification of both genes was found in various kinds of human tumors. Studies on the mouse homolog suggested a function in bone morphogenesis and limb development through the sonic hedgehog (SHH) signaling pathway.
Molecular Mass	14 kDa
Endotoxin	<0.005 EU/μg protein (below level of detection)
Applications	iPSC/ESC Expansion and Differentiation

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Storage Resuspend in water at >100 µg/mL, prepare single use aliquots, add carrier protein if desired and store frozen at -20 or -80 centigrade

Storage Buffer Lyophilized from PBS

GENE INFORMATION

Gene Name FGF4 fibroblast growth factor 4 [Homo sapiens (human)]

Official Symbol FGF4

Synonyms FGF4; fibroblast growth factor 4; HST; KFGF; FGF-4; HST-1; HSTF1; K-FGF; HBGF-4; HSTF-1; fibroblast growth factor 4; heparin secretory transforming protein 1; heparin-binding growth factor 4; human stomach cancer, transforming factor from FGF-related oncogene; kaposi sarcoma oncogene; oncogene HST; transforming protein KS3

Gene ID 2249

mRNA Refseq NM_002007

Protein Refseq NP_001998

MIM 164980

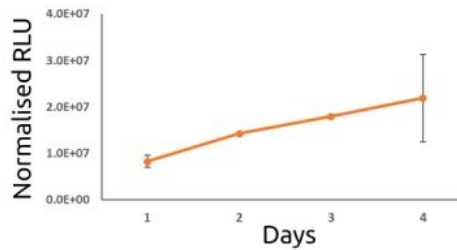
UniProt ID P08620

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Bioactivity

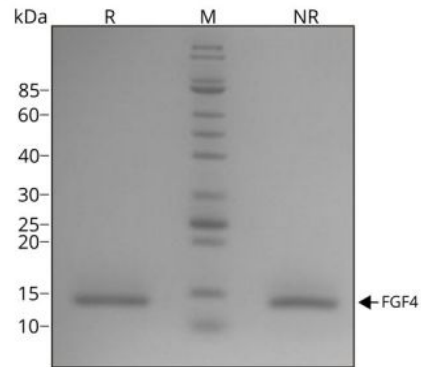


FGF4 induces cell proliferation of iPSC cells (Stemnovate iPSC1 line). IPSC were cultured in serum-free media containing 100ng/mL hFGF4. The number of viable metabolically active cells was detected by ATP measurement using a bioluminescent reaction. No media change was performed on day 2 leading to reduced viable cell numbers on day 3. FGF-4 protein induces proliferation of HEK293T cells.

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Purity

Recombinant human FGF4 protein migrates as a single band at 14 kDa in non-reducing conditions and upon reduction (R). No contaminating protein bands are visible. Purified recombinant protein was resolved using 15% w/v SDS-PAGE in reduced and non-reduced conditions and stained with Coomassie Brilliant Blue R250.

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