

FGF-4 active protein

Human FGF-4

CATALOG # AAA79291	HOST E Coli	REACTIVITY Human
------------------------------	-----------------------	----------------------------

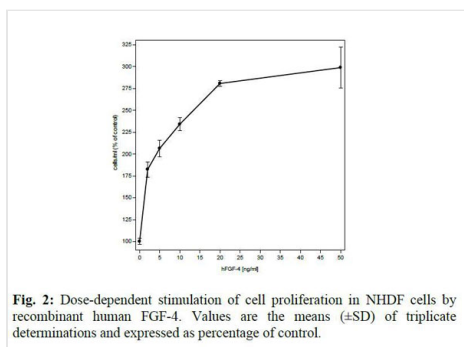
PRODUCT SYNONYMS

FGF-4; Human FGF-4; Recombinant Human FGF-4; HBGF-4; Heparin-binding growth factor 4; Kfgf; FGF-4 active protein

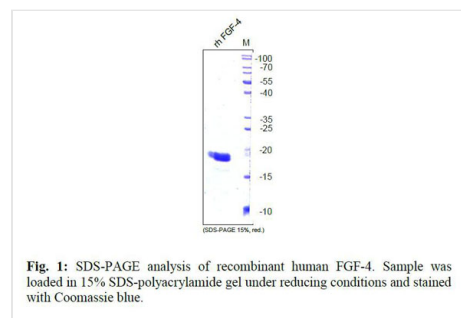
PRODUCT SPECIFICATIONS

Host	E Coli
Reactivity	Human
Purity/Purification	> 95% by SDS-PAGE & silver stain
Form/Format	Lyophilized
Sequence	N-Terminal Sequence:M APTAPNGTL
Sequence Length	177
N Terminal Sequence	MAPTAPNGTL
Buffer	PBS
Preparation and Storage	The lyophilized protein is stable for a few weeks at room temperature, but best stored at -20 degree C. Reconstituted FGF-4 should be stored in working aliquots at -20 degree C. Avoid repeated freeze-thaw cycles.

IMAGES



Application Data



ADDITIONAL INFORMATION

Related Product Information for FGF-4 active protein	FGF-4 (fibroblast growth factor 4), also known as K-FGF (Kaposi's sarcoma associated FGF), is a 25 kDa secreted, heparin binding member of the FGF family. The human FGF-4 cDNA encodes 206 amino acids (aa) with a 33 aa signal sequence and a 173 aa mature protein with an FGF homology domain that contains a heparin binding region near the C terminus. Mature human FGF-4 shares a high aa identity with mouse, rat, canine and bovine FGF-4, respectively. The expression of FGF-4 and its receptors, FGF-R1c, -R2c, -R3c and R4, is spatially and temporally regulated during embryonic development. Its expression in the mouse trophoblast inner cell mass promotes expression of FGF-R2, and is required for maintenance of the trophectoderm and primitive endoderm. FGF-4 is proposed to play a physiologically relevant role in human embryonic stem cell self-renewal. It promotes stem cell proliferation, but may also aid differentiation depending on context and concentration, and is often included in embryonic stem cell media in-vitro. FGF-4 is mitogenic for fibroblasts and endothelial cells in-vitro and has autocrine transforming potential. It is a potent angiogenesis promoter in-vivo and has been investigated as therapy for coronary artery disease.
Product Categories/Family for FGF-4 active protein	Cytokines & Growth Factors
References	1. Feldman B et al, Science 267:246, 1995 2. Sun X et al, Nature 418:501, 2002 3. Mariani FV et al, Nature 453:401, 2008 4. Johannesson M et al, PLoS ONE 4:e4794, 2009 5. Kunath T et al, Development 134:2895, 2007 6. Mayshar Y et al, Stem Cells 26:767, 2008 7. Hajitou A et al, Oncogene 17:2059, 1998

NCBI AND UNIPROT INFORMATION

NCBI GI #	4503701
NCBI GeneID	2249
NCBI Accession #	NP_001998.1
NCBI GenBank Nucleotide #	NM_002007
UniProt Accession #	P08620 ; B7U994 ; AAB21430
Molecular Weight	19,7 kDa
NCBI Official Full Name	fibroblast growth factor 4
NCBI Official Synonym Full Names	fibroblast growth factor 4
NCBI Official Symbol	FGF4
NCBI Official Synonym Symbols	HST; KFGF; HST-1; HSTF1; K-FGF; HBGF-4
NCBI Protein Information	fibroblast growth factor 4; FGF-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
UniProt Protein Name	Fibroblast growth factor 4
UniProt Gene Name	FGF4
UniProt Synonym Gene Names	HST; HSTF1; KS3; FGF-4; HST; HST-1; HSTF-1; HBGF-4
UniProt Entry Name	FGF4_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.