

Active Recombinant Human FGF1 Protein (140 aa)

Cat. No. FGF1-404F **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human Fibroblast Growth Factor-acidic (rhFGF-acidic) produced in E. coli is a single non-glycosylated polypeptide chain containing 140 amino acids. A fully biologically active molecule, rhFGF-acidic has a molecular mass of 15.8 kDa analyzed by reducing SDS-PAGE and is obtained by proprietary chromatographic techniques.
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Species	Human
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Source	E.coli
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ProteinLength	140
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Description	Fibroblast Growth Factor-acidic (FGF-acidic), also known as FGF-1 and endothelial cell growth factor, is a member of the FGF family which currently contain 23 members. FGF acidic and basic, unlike the other members of the family, lack signal peptides and are apparently secreted by mechanisms other than the classical protein secretion pathway. FGF acidic has been detected in large amounts in the brain. Other cells known to express FGF acidic include hepatocytes, vascular smooth muscle cells, CNS neurons, skeletal muscle cells, fibroblasts, keratinocytes, endothelial cells, intestinal columnar epithelium cells and pituitary basophils and acidophils. As with other FGF's, FGF acidic exhibits considerable species cross reactivity. FGF acidic and FGF basic stimulate the proliferation of all cells of mesodermal origin, and many cells of neuroectodermal, ectodermal and endodermal origin.
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Form	Sterile Filtered White lyophilized (freeze-dried) powder.
Bio-activity	ED50< 0.3 ng/mL, measured by a cell proliferation assay of 3T3 Cells, corresponding to a specific activity of $>3.3 \times 10^6$ IU/mg in the presence of 10 µg/mL of heparin.
Molecular Mass	15.8 kDa, observed by reducing SDS-PAGE.
AA Sequence	FNLPPGNYKKPKLLYCSNGGHFLRILPDGTVDGTRDRSDQHIQLQLSAESVGEVYIK STETGQYLAMDTDGLLYGSQTPNEECLFLERLEENHYNTYISKKHAEKNWVGLKK NGSCKRGPRTHYGQKAILFLPLVSSD
Endotoxin	< 0.2 EU/µg, determined by LAL method.
Purity	> 95% by SDS-PAGE and HPLC analyses.
Storage	Lyophilized recombinant human Fibroblast Growth Factor- acidic (rhFGF-acidic) remains stable up to 6 months at -80 centigrade from date of receipt. Upon reconstitution, rhFGF-acidic should be stable up to 2 weeks at 4 centigrade or up to 3 months at -20 centigrade.
Storage Buffer	Lyophilized after extensive dialysis against PBS.
Reconstitution	Reconstituted in ddH ₂ O or PBS at 100 µg/mL.

GENE INFORMATION

Gene Name	FGF1 fibroblast growth factor 1 [Homo sapiens (human)]
Official Symbol	FGF1
Synonyms	FGF1; fibroblast growth factor 1; AFGF; ECGF; FGFA; ECGFA; ECGFB; FGF-1;

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HBGF1; HBGF-1; GLIO703; ECGF-beta; FGF-alpha; fibroblast growth factor 1; beta-endothelial cell growth factor; endothelial cell growth factor, alpha; endothelial cell growth factor, beta; fibroblast growth factor 1 (acidic); heparin-binding growth factor 1

Gene ID	2246
mRNA Refseq	www.ncbi.nlm.nih.gov/nuccore/NM_000800
Protein Refseq	www.ncbi.nlm.nih.gov/protein/NP_000791
MIM	131220
UniProt ID	P05230

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