

Active Recombinant Mouse Fibroblast Growth Factor 1

Cat. No. Fgf1-565M Lot. No. (See product label)

SPECIFICATION

Product Overview	M-FGF-acidic is non-glycosylated heparin binding protein comprised of 141 amino acid residues with a molecular weight of 15.9 kDa.
Species	Mouse
Source	E.coli
Description	Recombinant Mouse Fibroblast Growth Factor-acidic is one of over 20 members of the FGF family. The fibroblast growth factors play a central role in prenatal development and growth and regeneration of cells during the proliferation and differentiation stages.
Form	Lyophilized at a concentration of 1 mg/ml in 5 mM NaP, 7.5 + 50 mM NaCl.
Purity	Purity Greater than 98% as determined by: Analysis by RP-HPLC. Reducing and non-reducing SDS-PAGE.
Bio-activity	Recombinant Human FGF-alpha is fully biologically active when compared to standards. The ED50, calculated by the dose-dependent proliferation of mouse BALB/c 3T3 cells, is less than 0.04ng/ml.
Physical Appearance	Sterile Filtered white lyophilized (freeze-dried) powder.
Solubility	Centrifuge vial before opening. When reconstituting the product, gently pipet and wash down the sides of the vial to ensure full recovery of the protein into solution. It is

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recommended to reconstitute the lyophilized product with sterile water at a concentration of 0.1 - 0.5 mg"/s/ml, which can be further diluted into other aqueous solutions.

Purity Greater than 98% as determined by

Analysis by RP-HPLC. Reducing and non-reducing SDS-PAGE.

Protein Content determined by

UV spectroscopy at 280 nm. Analysis by RP-HPLC calibrated against a known standard. Quantitation on SDS-PAGE against a known standard.

Endotoxin Level

Endotoxin level as measured by LAL is <0.01ng/ug or <0.1EU/ug.

Amino acid sequence

MFNLPLGNYK KPKLLYCSNG GHFLRILPDG TVDGTRDRSD QHIQLQLSAE
SAGEVYIKGT ETGQYLAMDTEGLLYGSQTP NEECLFLERL EENHYNTYTS
KKHAEKNWFV GLKKNNGSCKR GPRTHYGQKA ILFLPLPVSS D

Storage

Lyophilized product is very stable at -20 degrees. Reconstituted material should be aliquoted and frozen at -20. It is recommended to add a carrier protein (0.1% HSA or BSA) for long term storage.

GENE INFORMATION

Gene Name

Fgf1 fibroblast growth factor 1 [*Mus musculus*]

Official Symbol

Fgf1

Synonyms

Dffrx; Fam; Fgf-1; Fgfa; HBGF-1; ECGF-beta; FIBP; FGFIBP; FIBP-1; ECGF; ECGFA; GLIO703; FGF1; FGF-a; Heparin-binding growth factor 1; Acidic fibroblast growth factor; aFGF; ECGFB; FGF-alpha; FGFA; HBGF1; AFGF; Beta-endothelial cell growth factor; Heparin binding growth factor 1 precursor; endothelial cell growth

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factor alpha; endothelial cell growth factor beta; fibroblast growth factor 1 (acidic); heparin binding growth factor 1; Fgf1; fibroblast growth factor 1Dffrx; Fam; Fgf-1; Fgfa; HBGF-1; ECGF-beta; FIBP; FGFIBP; FIBP-1; ECGF; ECGFA; GLIO703; FGF1; FGF-a; Heparin-binding growth factor 1; Acidic fibroblast growth factor; aFGF; ECGFB; FGF-alpha; FGFA; HBGF1; AFGF; Beta-endothelial cell growth factor; Heparin binding growth factor 1 precursor; endothelial cell growth factor alpha; endothelial cell growth factor beta; fibroblast growth factor 1 (acidic); heparin binding growth factor 1

Gene ID [14164](#)

mRNA Refseq [NM_010197](#)

Protein Refseq [NP_034327](#)

UniProt ID [P61148](#)

Chromosome Location 18 19.0 cM

Pathway MAPK signaling pathway; Melanoma; Regulation of actin cytoskeleton

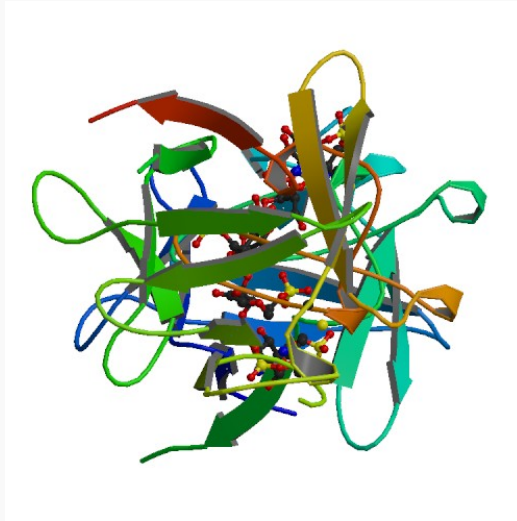
Function growth factor activity; heparin binding

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