

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

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

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

 45-1 Ramsey Road, Shirley, NY 11967, USA

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 ETGQYLAMDT EGLLYGSQTP NEECLFLERL EENHYNTYTS
KKHAEKNWFV GLKKN GSCKR 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

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

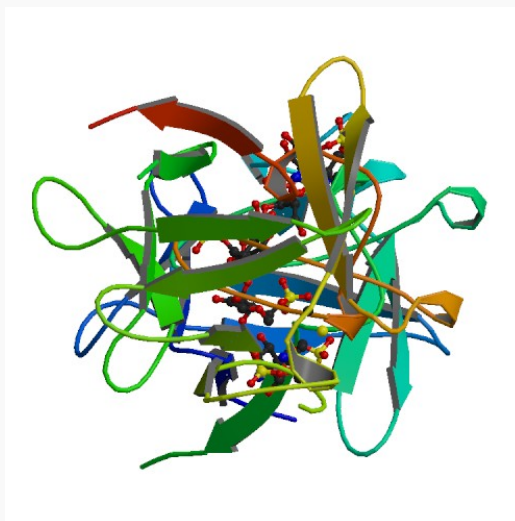
 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

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

PDB rendering based
on 1axm.



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

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

45-1 Ramsey Road, Shirley, NY 11967, USA