

Recombinant Mouse Fibroblast Growth Factor-acidic

Cat. No. Fgf1-10M Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Mouse FGF-acidic produced in E. coli is a non-glycosylated polypeptide chain containing 140 amino acids and having a molecular mass of 15796 Dalton
Species	Mouse
Source	E.coli
Description	FGF acidic, also known as FGF-1, ECGF, and HBGF-1, is a 17 kDa nonglycosylated member of the FGF family of mitogenic peptides. FGF acidic, which is produced by multiple cell types, stimulates the proliferation of all cells of mesodermal origin and many cells of neuroectodermal, ectodermal, and endodermal origin. It plays a number of roles in development, regeneration, and angiogenesis. FGF-acidic is a non-glycosylated heparin binding growth factor that is expressed in the brain, kidney, retina, smooth muscle cells, bone matrix, osteoblasts, astrocytes and endothelial cells. FGF-acidic has the ability to signal through all the FGF receptors.
Purity	>95% as determined by HPLC and SDS-PAGE.
Formulation	Mouse FGF-acidic was lyophilized after extensive dialysis against PBS.
Specific Activity	The ED50 as determined by the dose-dependant stimulation of thymidine uptake by 3T3 cells in the presence of heparin was found to be less than 0.5 ng/ml, corresponding to a Specific Activity of 2.0×10^6 IU/mg.
Endotoxin	Less than 0.1ng/g (1 IEU/g) of FGF-acidic.

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Reconstitution	It is recommended to reconstitute the lyophilized rmFGF-acidic in sterile 18MΩ-cm H ₂ O not less than 100g/ml, which can then be further diluted to other aqueous solutions.
Storage	Lyophilized rmFGF-acidic although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution rmFGF-acidic should be stored at 4°C between 2-7 days and for future use below -18°C. For long-term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Aliquot to avoid repeated freeze-thaw cycles.
GENE INFORMATION	
Gene Name	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 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
MIM	131220
UniProt ID	P61148
Chromosome Location	18 19.0 cM
Pathway	MAPK signaling pathway; Melanoma; Regulation of actin cytoskeleton
Function	growth factor activity; heparin binding
PDBrendering based on 1afc.	