

Fibroblast Growth Factor-basic Active Protein | mFGF 2 active protein

Recombinant Mouse Fibroblast Growth Factor-basic

CATALOG #
AAA38184

HOST
E Coli

PRODUCT SYNONYMS

Fibroblast Growth Factor-basic; Recombinant Mouse Fibroblast Growth Factor-basic; FGF 2 Mouse; Fibroblast Growth Factor-Basic Mouse Recombinant; HBGH-2; HBGF-2; Prostatopin; FGF-2; FGB-b; mFGF 2 active protein

PRODUCT SPECIFICATIONS

Host	E Coli
Purity/Purification	Greater than 95.0% as determined by: (a) Analysis by RP-HPLC. (b) Analysis by SDS-PAGE.
Form/Format	FGF-b was lyophilized from 5mM Na2PO4, pH7.5 and 50mM NaCl. Sterile Filtered White lyophilized (freeze-dried) powder.
Sequence	MPALPEDGGA AFPPGHFKDP KRLYCKNGGF FLRIHPDGRV DGVREKSDPH VKLQLQAEER GVVSIGKVCA NRYLAMKEDG RLLASKCVTE ECTFFERLES NNYNTYRSRK YSSWYVALKR TGQYKLGSKT GPGQKAILFL PMSAKS
Sequence Length	154
Solubility	It is recommended to reconstitute the lyophilized Fibroblast Growth Factor b in sterile 18M-cm H2O not less than 100 ug/ml, which can then be further diluted to other aqueous solutions.
Protein Content	Protein quantitation was carried out by two independent methods1. UV spectroscopy at 280 nm using the absorbency value of 0.885 as the extinction coefficient for a 0.1% (1mg/ml) solution. This value is calculated by the PC GENE computer analysis program of protein sequences (IntelliGenetics). 2. Analysis by RP-HPLC, using a calibrated solution of FGF2 as a Reference Standard.
Biological Activity	The activity as calculated by the dose-dependant proliferation of BALB/3T3 cells was found to be 0.1-0.16ng/ml.
Preparation and Storage	Lyophilized Fibroblast Growth Factor-2 although stable at room temperature for 3 weeks, should be stored desiccated below -18 degree C. Upon reconstitution FGF-basic should be stored at 4 degree C between 2-7 days and for future use below -18 degree C.For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA).Please prevent freeze-thaw cycles.

ADDITIONAL INFORMATION

Related Product Information for mFGF 2 active protein	Description: Fibroblast Growth Factor-basic Mouse Recombinant (FGF-2) produced in E Coli is a single, non-glycosylated, polypeptide chain containing 146 amino acids and having a molecular mass of 16.3kDa. The FGF-2 is purified by proprietary chromatographic techniques. Introduction: FGF-basic is a member of the fibroblast growth factor (FGF) family. FGF family members bind heparin and possess broad mitogenic and angiogenic activities. This protein has been implicated in diverse biological processes, such as limb and nervous system development, wound healing, and tumor growth. The mRNA for this gene contains multiple polyadenylation sites, and is alternatively translated from AUG and non-AUG (CUG) initiation codons resulting in five different isoforms with distinct properties. The CUG-initiated isoforms are localized in the nucleus and are responsible for the intracrine effect, whereas, the AUG-initiated form is mostly cytosolic and is responsible for the paracrine and autocrine effects of this FGF.The heparin-binding growth factors are angiogenic agents in vivo and are potent mitogens for a variety of cell types in vitro. there are differences in the tissue distribution and concentration of these 2 growth factors.
Product Categories/Family for mFGF 2 active protein	Cytokines and Growth Factors; Growth Factors; Fibroblast Growth Factor

NCBI AND UNIPROT INFORMATION

NCBI GI #	7106315
NCBI GeneID	14173
NCBI Accession #	NP_032032.1
NCBI GenBank Nucleotide #	NM_008006.2
UniProt Accession #	P15655
Molecular Weight	17,153 Da
NCBI Official Full Name	fibroblast growth factor 2
NCBI Official Synonym Full Names	fibroblast growth factor 2
NCBI Official Symbol	Fgf2
NCBI Official Synonym Symbols	Fgfb; bFGF; Fgf-2
NCBI Protein Information	fibroblast growth factor 2; HBGF-2; basic fibroblast growth factor; heparin-binding growth factor 2
UniProt Protein Name	Fibroblast growth factor 2
UniProt Gene Name	Fgf2
UniProt Synonym Gene Names	Fgf-2; FGF-2; bFGF; HBGF-2
UniProt Entry Name	FGF2_MOUSE

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.

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Online datasheet: <https://stage.aaabiotech.com/e-coli-mfgf-2-active-protein/fibroblast-growth-factor-basic/38184>