

FGF-2 (basic) Active Protein | FGF-2 active protein

Mouse FGF-2 (basic)

CATALOG # AAA79191	HOST E Coli	REACTIVITY Mouse
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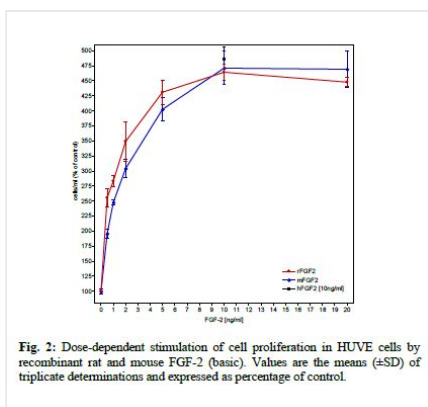
PRODUCT SYNONYMS

FGF-2 (basic); Mouse FGF-2 (basic); Recombinant Mouse Fibroblast Growth Factor-2 (basic); basic Fibroblast growth factor (bFGF); Heparin binding growth factor-2 (HBGF-2); FGF-2 active protein

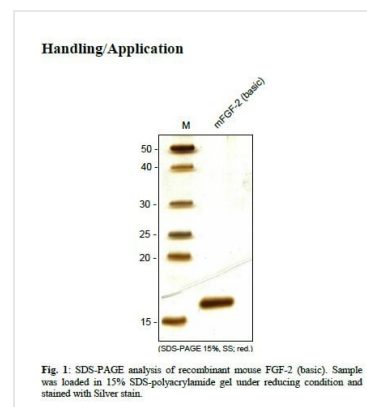
PRODUCT SPECIFICATIONS

Host	E Coli
Reactivity	Mouse
Purity/Purification	> 98% by SDS-PAGE & silver stain
Form/Format	Lyophilized
Sequence	N-Terminal Sequence: A LPEDGG
Sequence Length	144
Endotoxin Level	< 0.1ng per ug of mouse FGF-2
Buffer	PBS
Preparation and Storage	Lyophilized samples are stable for greater than six months at -20 degree C to -70 degree C. Basic FGF can be stored in high-salt buffer (PBS, 1M NaCl) at 4 degree C for 2-4 weeks.

IMAGES



Application Data



Application Data

ADDITIONAL INFORMATION

Related Product Information for FGF-2 active protein	The FGF family is composed of at least 23 polypeptides that show a variety of biological activities towards cells of mesenchymal, neuronal and epithelial origin. All members are heparin-binding growth factors (HB-GF). Until the structure of basic fibroblast growth factor (bFGF/FGF-2) was determined, a number of synonyms was used to describe this growth factor. As is often the case, the nomenclature reflected the observed activities reported by individual groups. Basic FGF has been reported as leukemia growth factor, macrophage growth factor, endothelial growth factor and tumor angiogenesis factor. The eventual isolation and characterization of bFGF was done from soluble brain extracts. bFGF was found to have a molecular mass of 16.5 kDa and to be 154 amino acids in length. Interestingly, bFGF contains no hydrophobic leader sequence previously thought to be required for cell secretion. Basic FGF bears 55% homology to acidic FGF and also seems to exist in three forms: the 154 amino-acid form and two other truncated versions of 146 and 131 amino acids lacking the N-terminal 9 and 24 residues. Acidic and basic FGF compete for the binding to 125 kDa and 145 kDa receptor species. However, acidic FGF has a higher affinity for the 125 kDa species, while basic FGF has a higher affinity for the 145 kDa species. FGF receptor activation leads to the activation of MAP kinase and protein kinase C. FGF's induce the proliferative response in cells derived from mesoderm and neuroectoderm. It seems that basic FGF reduces the average doubling time by shortening the G1 phase of the cell cycle. Furthermore, it has been reported to induce the release of plasminogen activator by endothelial cells. Perhaps one of the most potentially significant applications of bFGF is related to its reported ability to induce angiogenesis.
Product Categories/Family for FGF-2 active protein	Cytokines & Growth Factors
References	1. Coulier F et al, J Mol Evol 44:43, 1997 2. Fernig D et al, Prog Growth Factor Res 5:353, 1994 3. Presta M et al, Cytokine Growth Factor Rev 16:159, 2005 4. Claus P et al, J Biol Chem 278:479, 2003 5. Quarto N et al, Gene 356:49, 2005 6. Tsuneto M et al, Biochem Biophys Res Comm 335:1239, 2005 7. Hebert JM et al, Dev Biol 138:454, 1990

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	16.35 kDa
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-mouse-active-protein/fgf-2-basic/79191>