

Fibroblast Growth Factor-acidic Active Protein | FGF 1 active protein

Recombinant Human Fibroblast Growth Factor-acidic, Sf9

CATALOG # AAA38176	HOST Baculovirus
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PRODUCT SYNONYMS

Fibroblast Growth Factor-acidic; Recombinant Human Fibroblast Growth Factor-acidic; Sf9; FGF 1 Human; Fibroblast Growth Factor-Acidic Human Recombinant; HBGF-1; ECGF-beta; FIBP; FGFIBP; FIBP-1; ECGF; ECGFA; GLIO703; FGF1; FGF-a; FGF 1 Sf9; FGF 1 active protein

PRODUCT SPECIFICATIONS

Host	Baculovirus
Purity/Purification	Greater than 95.0% as determined by(a) Analysis by RP-HPLC. (b) Analysis by SDS-PAGE.
Form/Format	The sterile protein solution (1.8mg/ml) contains 20mM Tris HCl pH=7.9, 100mM KCl, 0.2mM DTT and 20% glycerol. Sterile Filtered liquid formulation.
Sequence	Thesequenc eofthefirs tfiveN-ter minalamino acidsasdet erminedand wasfoundto beMet-Phe- Asn-Leu-Pr o
Sequence Length	155
Biological Activity	The ED50, calculated by the dose-dependant proliferation of BAF3 cells expressing FGF receptors (measured by 3H-thymidine uptake) is <10 ng/ml, corresponding to a specific activity of 100,000IU/mg.
Preparation and Storage	Fibroblast Growth Factor-acidic although stable at 4 degree C for 3 weeks, should be stored desiccated 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 FGF 1 active protein	Description: Fibroblast Growth Factor-1 Human Recombinant (FGF-1) produced in Sf9 insect cells is a single, glycosylated, polypeptide chain containing 140 amino acids and having a molecular mass of 15803 Dalton. The FGF-a is purified by proprietary chromatographic techniques. Introduction: Acidic fibroblast growth factor is a member of the fibroblast growth factor (FGF) family. FGF family members possess broad mitogenic and cell survival activities, and are involved in a variety of biological processes, including embryonic development, cell growth, morphogenesis, tissue repair, tumor growth and invasion. This protein functions as a modifier of endothelial cell migration and proliferation, as well as an angiogenic factor. It acts as a mitogen for a variety of mesoderm- and neuroectoderm-derived cells in vitro, thus is thought to be involved in organogenesis. Three alternatively spliced variants encoding different isoforms have been described. 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 FGF 1 active protein	Cytokines and Growth Factors ; Growth Factors ; Fibroblast Growth Factor

NCBI AND UNIPROT INFORMATION

NCBI GI #	4503697
NCBI GeneID	2246
NCBI Accession #	NP_000791.1
NCBI GenBank Nucleotide #	NM_000800.4

UniProt Accession #	P05230 ; P07502 ; Q16588 ; B2R5T0 ; D3DQF2
Molecular Weight	6,698 Da
NCBI Official Full Name	fibroblast growth factor 1 isoform 1
NCBI Official Synonym Full Names	fibroblast growth factor 1 (acidic)
NCBI Official Symbol	FGF1
NCBI Official Synonym Symbols	AFGF; ECGF; FGFA; ECGFA; ECGFB; FGF-1; HBGF1; HBGF-1; GLIO703; ECGF-beta; FGF-alpha
NCBI Protein Information	fibroblast growth factor 1; beta-endothelial cell growth factor; endothelial cell growth factor, alpha; endothelial cell growth factor, beta; heparin-binding growth factor 1
UniProt Protein Name	Fibroblast growth factor 1
UniProt Gene Name	FGF1
UniProt Synonym Gene Names	FGFA; FGF-1; aFGF; ECGF; HBGF-1
UniProt Entry Name	FGF1_HUMAN

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://www.aaabiotech.com/baculovirus-fgf-1-active-protein/fibroblast-growth-factor-acidic/38176>