

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

Recombinant Human Fibroblast Growth Factor-acidic

CATALOG #
AAA38140

HOST
E Coli

PRODUCT SYNONYMS

Fibroblast Growth Factor-acidic; Recombinant Human Fibroblast Growth Factor-acidic; 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 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	The protein was lyophilized from a concentrated (1mg/ml) sterile solution containing PBS, pH 7.4. Sterile Filtered White lyophilized (freeze-dried) powder.
Sequence	MFNLPPGNYK KPKLLYCSNG GHFLRILPDG TVDGTRDRSD QHIQLQLSAE SVGEVYIKST ETGQYLAMDT DGLLYGSQTP NEECLFLERL EENHYNTYIS KKHAENWVFN GLKKNNGSCKR GPRTHYGQKA ILFLPLPVSS D
Sequence Length	155
Solubility	It is recommended to reconstitute the lyophilized Fibroblast Growth Factor-acidic in sterile 18M Omega -cm H ₂ O at 4 degrees Celsius at a concentration of 0.1mg-0.25mg per 1ml. Allow sample to sit for 5 min. at 4 degrees, spin to remove precipitant.
Biological Activity	The ED ₅₀ , calculated by the dose-dependant proliferation of mouse BALB/c 3T3 cells is <0.5 ng/ml, corresponding to a specific activity of > 2,000,000IU/mg.
Preparation and Storage	Lyophilized Fibroblast Growth Factor-1 although stable at room temperature for 3 weeks, should be stored desiccated below -18 degree C. Upon reconstitution FGF-a should be stored at 4 degree C between 2-7 days and for future use below -18 degree C. Please prevent freeze-thaw cycles.

ADDITIONAL INFORMATION

Related Product Information for FGF 1 active protein	Description: Fibroblast Growth Factor-acidic Human Recombinant (FGF-1) produced in E Coli is a single, non-glycosylated, polypeptide chain containing 140 amino acids and having a molecular mass of approximately 15.8kDa. The FGF acidic 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.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com

Online datasheet: <https://www.aaabiotech.com/e-coli-fgf-1-active-protein/fibroblast-growth-factor-acidic/38140>