Acidic Fibroblast Growth Factor (AFGF) ELISA Kit for Chicken

PRODUCT OVERVIEW

Product Name	Acidic Fibroblast Growth Factor (AFGF), ELISA Kit
Full Product Name	Chicken Acidic Fibroblast Growth Factor ELISA Kit
Product Gene Name	AFGF elisa kit
Species Reactivity	Chicken
Assay Type	Sandwich
Preparation and Storage	Store all reagents at 2-8 degree C
Molecular Weight	17,460 Da
Chromosome Location	Chromosome: 5; NC_000005.9 (141971743..142077635, complement). Location: 5q31
OMIM	131220
3D Structure	ModBase 3D Structure for P05230
Related Product Information for AFGF elisa kit	MBS046232 is a ready-to-use microwell, strip-or-full plate ELISA (enzyme-linked immunosorbent assay) Kit for analyzing the presence of the Acidic Fibroblast Growth Factor (AFGF) ELISA Kit target analytes in biological samples. The concentration gradients of the kit standards or positive controls render a theoretical kit detection range in biological research samples containing AFGF. The ELISA analytical biochemical technique of the MBS046232 kit is based on AFGF antibody-AFGF antigen interactions (immunosorbency) and an HRP colorimetric detection system to detect AFGF antigen targets in samples. The ELISA Kit is designed to detect native, not recombinant, AFGF. Appropriate sample types may include undiluted body fluids and/or tissue homogenates, secretions. Quality control assays assessing reproducibility identified the intra-assay CV (%) and inter-assay CV(%).
Other Notes	Small volumes of AFGF elisa kit vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for AFGF. It may not necessarily be applicable to this product.

NCBI GI #	13236891
NCBI GeneID	2246
NCBI Accession #	AAB29057.2
UniProt Primary Accession #	P05230
UniProt Secondary Accession #	P07502; Q16588; B2R5T0; D3DQF2
UniProt Related Accession #	P05230
NCBI Official Full Name	acidic fibroblast growth factor
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
UniProt Protein Name	Fibroblast growth factor 1
UniProt Synonym Protein Names	Acidic fibroblast growth factor; aFGF; Endothelial cell growth factor; ECGF; Heparin-binding growth factor 1

Protein Family	Acidic fibroblast growth factor intracellular-binding protein
UniProt Gene Name	FGF1
UniProt Synonym Gene Names	FGFA; FGF-1; aFGF; ECGF; HBGF-1
UniProt Entry Name	FGF1_HUMAN
NCBI Protein Information	fibroblast growth factor 1; heparin-binding growth factor 1; beta-endothelial cell growth factor; endothelial cell growth factor, beta; endothelial cell growth factor, alpha
NCBI Summary for AFGF	The protein encoded by this gene 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. Multiple alternatively spliced variants encoding different isoforms have been described. [provided by RefSeq, Jan 2009]
UniProt Comments for AFGF	FGF1: Plays an important role in the regulation of cell survival, cell division, angiogenesis, cell differentiation and cell migration. Functions as potent mitogen in vitro. Monomer. Homodimer. Interacts with FGFR1, FGFR2, FGFR3 and FGFR4. Affinity between fibroblast growth factors (FGFs) and their receptors is increased by heparan sulfate glycosaminoglycans that function as coreceptors. Found in a complex with FGFBP1, FGF1 and FGF2. Interacts with FGFBP1. Part of a Cu(2+)-dependent multiprotein aggregate containing FGF1, S100A13 and SYT1. Interacts with SYT1. Interacts with S100A13. Belongs to the heparin-binding growth factors family. 2 isoforms of the human protein are produced by alternative splicing. Protein type: Motility/polarity/chemotaxis; Cell development/differentiation; Cytokine Chromosomal Location of Human Ortholog: 5q31 Cellular Component: nucleoplasm; extracellular space; proteinaceous extracellular matrix; nucleolus; extracellular region; cell cortex; cytosol Molecular Function: heparin binding; protein binding; growth factor activity; Hsp70 protein binding; fibroblast growth factor receptor binding Biological Process: epidermal growth factor receptor signaling pathway; anatomical structure morphogenesis; fibroblast growth factor receptor signaling pathway; phosphoinositide-mediated signaling; nerve growth factor receptor signaling pathway; multicellular organismal development; positive regulation of cholesterol biosynthetic process; signal transduction; positive regulation of MAP kinase activity; positive regulation of angiogenesis; induction of an organ; positive regulation of cell division; positive regulation of cell proliferation; insulin receptor signaling pathway; innate immune response; positive regulation of transcription from RNA polymerase II promoter; angiogenesis; positive regulation of epithelial cell proliferation; positive regulation of cell migration; lung development
Research Articles on AFGF	**1.** The expression of FGF-1 in the in vitro fertilization (IVF) implantation failure group is less than in the fertile group, which suggests that growth factors such as FGF-1 are important maternal factors effecting implantation
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