Fibroblast Growth Factor 7 (FGF7) ELISA Kit for Hamster

PRODUCT OVERVIEW

Product Name	Fibroblast Growth Factor 7 (FGF7), ELISA Kit
Full Product Name	Hamster Fibroblast Growth Factor 7 ELISA Kit
Product Gene Name	FGF7 elisa kit
Species Reactivity	Hamster
Assay Type	Sandwich
Preparation and Storage	Store all reagents at 2-8 degree C
Molecular Weight	22,509 Da
Chromosome Location	Chromosome: 15; NC_000015.9 (49715375..49779523). Location: 15q21.2
OMIM	148180
3D Structure	ModBase 3D Structure for P21781
Related Product Information for FGF7 elisa kit	MBS036977 is a ready-to-use microwell, strip plate ELISA (enzyme-linked immunosorbent assay) Kit for analyzing the presence of the Fibroblast Growth Factor 7 (FGF7) 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 FGF7. The ELISA analytical biochemical technique of the MBS036977 kit is based on FGF7 antibody-FGF7 antigen interactions (immunosorbency) and an HRP colorimetric detection system to detect FGF7 antigen targets in samples. The ELISA Kit is designed to detect native, not recombinant, FGF7. 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 FGF7 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 FGF7. It may not necessarily be applicable to this product.

NCBI GI #	4503705
NCBI GeneID	2252
NCBI Accession #	NP_002000.1
UniProt Primary Accession #	P21781
UniProt Related Accession #	P21781
GenBank Nucleotide #	NM_002009.3
NCBI Official Full Name	fibroblast growth factor 7
NCBI Official Synonym Full Names	fibroblast growth factor 7
NCBI Official Symbol	FGF7
NCBI Official Synonym Symbols	KGF; HBGF-7
UniProt Protein Name	Fibroblast growth factor 7
UniProt Synonym Protein Names	Heparin-binding growth factor 7; HBGF-7; Keratinocyte growth factor

Protein Family	Fibroblast growth factor
UniProt Gene Name	FGF7
UniProt Synonym Gene Names	KGF; FGF-7; HBGF-7
UniProt Entry Name	FGF7_HUMAN
NCBI Protein Information	fibroblast growth factor 7; FGF-7; keratinocyte growth factor; heparin-binding growth factor 7
NCBI Summary for FGF7	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 is a potent epithelial cell-specific growth factor, whose mitogenic activity is predominantly exhibited in keratinocytes but not in fibroblasts and endothelial cells. Studies of mouse and rat homologs of this gene implicated roles in morphogenesis of epithelium, reepithelialization of wounds, hair development and early lung organogenesis. [provided by RefSeq, Jul 2008]
UniProt Comments for FGF7	FGF7: Plays an important role in the regulation of embryonic development, cell proliferation and cell differentiation. Required for normal branching morphogenesis. Growth factor active on keratinocytes. Possible major paracrine effector of normal epithelial cell proliferation. Belongs to the heparin-binding growth factors family. Protein type: Secreted; Cytokine; Secreted, signal peptide Chromosomal Location of Human Ortholog: 15q21.2 Cellular Component: Golgi apparatus; extracellular region Molecular Function: heparin binding; protein binding; growth factor activity; chemoattractant activity; fibroblast growth factor receptor binding Biological Process: positive regulation of keratinocyte migration; epidermal growth factor receptor signaling pathway; epidermis development; phosphoinositide-mediated signaling; fibroblast growth factor receptor signaling pathway; hair follicle morphogenesis; nerve growth factor receptor signaling pathway; mesenchymal cell proliferation; signal transduction; positive regulation of peptidyl-tyrosine phosphorylation; positive chemotaxis; positive regulation of cell division; positive regulation of cell proliferation; actin cytoskeleton reorganization; insulin receptor signaling pathway; response to wounding; innate immune response; positive regulation of epithelial cell proliferation
Research Articles on FGF7	**1.** Increased KGF expression promotes fibroblast activation in a double paracrine manner resulting in cutaneous fibrosis.
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