

Recombinant Human FGF1

Cat. No. FGF1-0130 **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human FGF1 was expressed in Oryza Sativa (Rice Grain).
Species	Human
Source	Oryza Sativa
Introduction	Fibroblast Growth Factor-Acidic (aFGF) is a potent mitogenic agent for a wide variety of mesoderm-derived cells including BALB/c 3T3 fibroblasts, capillary and endocardial endothelial cells, myoblasts, vascular smooth muscle cells, mesothelial cells, glial and astroglial cells, and adrenal cortex cells. ^{1,2} In cells not growth inhibited by heparin (such as baby hamster kidney cells), heparin potentiates the actions of aFGF, but in cells inhibited by heparin (such as bovine brain-derived capillary endothelial cells), no such potentiation is observed.
Form	Lyophilized Powder
Applications	1. Medicine and clinical research: It is considered to function in several important physiological and pathological processes, such as embryonic development, morphogenesis, angiogenesis, wound healing and atheromatosis, carcinogenesis, development, and invasion of cancer. 2. Cosmetic raw material: a) Anti-wrinkle, Anti-oxidant, Skin whitening: aFGF modulates the skin rejuvenating by kstimulation of cell proliferation; Rejuvenates both the epidermal cells and the underlying fibroblast cells, which produce collagen, elastin, and hyaluronic acid, maintain human skin elasticity, and decrease cutaneous senescence; The proliferation of epidermal cells enhanced

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the skin cells regeneration. b) Rejuvenates hair follicle to produce new hair; aFGF can activate FGF-7, promote hair growth by stimulation of cell proliferation on primary hair cell, treat or prevent baldness.

Usage

For Research, Laboratory and Manufacture Use. The product should not be used as drugs and food additives.

Unitprot ID

P05230

GENE INFORMATION

Gene Name

FGF1 fibroblast growth factor 1 (acidic) [Homo sapiens]

Official Symbol

FGF1

Synonyms

FGF1; AFGF; ECGF; FGFA; ECGFA; ECGFB; HBGF1; GLIO703; ECGF-beta; FGF-alpha; heparin-binding growth factor 1; OTTHUMP00000066027; OTTHUMP00000066028; OTTHUMP00000066030; OTTHUMP00000066031; OTTHUMP00000174675; OTTHUMP00000199418; OTTHUMP00000199419; acidic fibroblast growth factor; beta-endothelial cell growth factor; endothelial cell growth factor, beta; endothelial cell growth factor, alpha

Gene ID

2246

mRNA Refseq

NM_000800

Protein Refseq

NP_000791

MIM

131220

Chromosome

5q31

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Location	
Pathway	Downstream signaling of activated FGFR; FGF signaling pathway; FGFR ligand binding and activation; FGFR1 ligand binding and activation; FGFR2 ligand binding and activation; FGFR3 ligand binding and activation; FGFR4 ligand binding and activation; FRS2-mediated cascade; IRS-mediated signaling; Regulation of Actin Cytoskeleton
Function	S100 alpha binding; fibroblast growth factor receptor binding; growth factor activity; heparin binding; protein binding; protein tyrosine kinase activity
PDB rendering based on 1afc.	