

Active Recombinant Human FGF1, His-tagged

Cat. No. FGF1-8498H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human FGF1, fused with His tag, was expressed in Sf21 Cells.
Species	Human
Source	Sf21 Cells
Description	Acidic fibroblast growth factor (FGF-1) and basic fibroblast growth factor (FGF-2) are ubiquitous cytokines found in many tissues. They have effects on multiple cell types derived from mesoderm and neuroectoderm, including endothelial cells. FGF proteins are small peptides of 155 to 268 amino acid residues. The degree of sequence identity between different family members is 30-60% in a "central domain" of ~120 amino acids. This domain confers to FGFs a common tertiary structure and the ability to bind to heparin. Secreted FGFs signal to target cells by binding and activating cell-surface tyrosine kinase FGF receptors (FGFRs). The function of FGFs and FGFRs during embryonic development and adult physiology has been addressed by gain- and loss-of-function experiments in several animal model organisms. These studies have shown that FGFs act as key regulators of developmental events.
Form	20 mM Tris-Cl, pH 7.9, 20% Glycerol, 100 mM KCl, 1 mM DTT and 0.2 mM EDTA
Bio-activity	1 unit equals 1 ng of purified protein; 20 units are sufficient in cell culture experiments.
AA Sequence	MAEGEITTFT ALTEKFNLPP GNYKKPKLLY CSNGGHFLRI LPDGTVDGTR DRSDQHIQLQ LSAESVGEVY IKSTETGQYL AMDTDGLLYG SQTPNEECLF

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LERLEENHYN TYISKKHAEK NWFVGLKKNG SCKRGPRTHY GQKAILFLPL PVSSD

Purity >95% as determined by SDS-PAGE

Storage -80 °C

Concentration 500 µg/ml

Shipping Dry Ice

GENE INFORMATION

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

Official Symbol FGF1

Synonyms FGF1; fibroblast growth factor 1 (acidic); FGFA; fibroblast growth factor 1; AFGF; ECGF; ECGF beta; ECGFA; ECGFB; endothelial cell growth factor; alpha; beta; FGF alpha; GLIO703; HBGF1; heparin binding growth factor 1; heparin-binding growth factor 1; beta-endothelial cell growth factor; endothelial cell growth factor, beta; endothelial cell growth factor, alpha; FGF-1; HBGF-1; ECGF-beta; FGF-alpha;

Gene ID 2246

mRNA Refseq NM_000800

Protein Refseq NP_000791

MIM 131220

UniProt ID P05230

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Chromosome Location	5q31.3-q33.2
Pathway	Downstream signaling of activated FGFR, organism-specific biosystem; FGF signaling pathway, organism-specific biosystem; FGFR ligand binding and activation, organism-specific biosystem; FGFR1 ligand binding and activation, organism-specific biosystem; FGFR1b ligand binding and activation, organism-specific biosystem; FGFR1c ligand binding and activation, organism-specific biosystem; FGFR2 ligand binding and activation, organism-specific biosystem;
Function	S100 alpha binding; fibroblast growth factor receptor binding; growth factor activity; heparin binding; protein binding; protein tyrosine kinase activity;

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