

Active Recombinant Human FGF2, His-tagged

Cat. No. FGF2-8499H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human FGF2, 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	MVGVGGGDVE DVTPRPGGCQ ISGRGARGCN GIPGAAAWEA ALPRRRPRRH PSVNPRSRAA GSPRTRGRRT EERPSGSRLG DRGRGRALPG GRLGGRGRGR

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APERVGGRGR GRGTAAPRAA PAARGSRPGP AGTMAAGSIT TLPALPEDGG
 SGAFPPGHFK DPKRLYCKNG GFFLRIHPDG RVDGVREKSD PHIKLQLQAE
 ERGVVSIKGV CANRYLAMKE DGRLLASKCV TDECFFFERL ESNNTYNTYRS
 RKYTSWYVAL KRTGQYKLGS KTGPGQKAIL FLPMSAKS

Purity >95% as determined by SDS-PAGE

Storage -80 °C

Concentration 350 µg/ml

Shipping Dry Ice

GENE INFORMATION

Gene Name FGF2 fibroblast growth factor 2 (basic) [Homo sapiens]

Official Symbol FGF2

Synonyms FGF2; fibroblast growth factor 2 (basic); FGFB; fibroblast growth factor 2; prostatropin; heparin-binding growth factor 2; basic fibroblast growth factor bFGF; BFGF; FGF-2; HBGF-2;

Gene ID 2247

mRNA Refseq NM_002006

Protein Refseq NP_001997

MIM 134920

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UniProt ID	P09038
Chromosome Location	4q26
Pathway	Angiopoietin receptor Tie2-mediated signaling, organism-specific biosystem; Downstream signaling of activated FGFR, organism-specific biosystem; Endochondral Ossification, 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;
Function	chemoattractant activity; cytokine activity; fibroblast growth factor binding; fibroblast growth factor receptor binding; growth factor activity; heparin binding; ligand-dependent nuclear receptor transcription coactivator activity; protein binding; protein tyrosine kinase activity; voltage-gated calcium channel activity;

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