

Recombinant Human FGF2

Cat. No. FGF2-27596TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full length Human FGF basic expressed in modified human 293 cells; amino acids 134-288 , Predicted MWt 16.4 kDa.
Species	Human
ProteinLength	134-288 a.a.
Description	The protein encoded by this gene is a member of the fibroblast growth factor (FGF) family. FGF family members bind heparin and possess broad mitogenic and angiogenic activities. This protein has been implicated in diverse biological processes, such as limb and nervous system development, wound healing, and tumor growth. The mRNA for this gene contains multiple polyadenylation sites, and is alternatively translated from non-AUG (CUG) and AUG initiation codons, resulting in five different isoforms with distinct properties. The CUG-initiated isoforms are localized in the nucleus and are responsible for the intracrine effect, whereas, the AUG-initiated form is mostly cytosolic and is responsible for the paracrine and autocrine effects of this FGF.
Tissue specificity	Expressed in granulosa and cumulus cells. Expressed in hepatocellular carcinoma cells, but not in non-cancerous liver tissue.
Biological activity	Activity: The ED50 of FGF2-27596TH is typically 0.05-0.1 ng/ml as measured in a cell proliferation assay using human umbilical endothelial cells (HUVECs).
Form	Lyophilised: It is recommended that 0.5 ml of sterile phosphate-buffered saline be

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added to the vial. Following reconstitution short-term storage at 4°C is recommended, and longer-term storage of aliquots at -18 to -20°C. Repeated freeze thawing is not rec

Purity >95% by SDS-PAGE

Storage buffer Preservative: None
Constituents: 10% Trehalose, 1% Human serum albumin

Storage Store at +4°C.

Sequences of amino acids MAAGSITLTPALPEDGGSGAFPPGHFKDPKRLYCKNGGFF LRIHPDGRVDGVREKS
DPHIKLQLQAEERGVSISIKGVC ANRYLAMKEDGRLLASKCVTDECFFFERLESNNY
NTYR SRKYTSWYVALKRTGQYKLGSKTGPGQKAILFLPMSAK S

Sequence Similarities Belongs to the heparin-binding growth factors family.

Full Length Full L.

GENE INFORMATION

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

Official Symbol FGF2

Synonyms FGF2; fibroblast growth factor 2 (basic); FGFB; heparin-binding growth factor 2;

Gene ID 2247

mRNA Refseq NM_002006

Protein Refseq NP_001997

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MIM	134920
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;
Function	chemoattractant activity; cytokine activity; fibroblast growth factor binding; fibroblast growth factor receptor binding; growth factor activity;

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