Recombinant Human FGF2, His-tagged

Cat. No. FGF2-27258TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full length mature human FGF basic with His tag produced in the endosperm tissue of barley grain ; amino acids 134-288 , 19.5 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.
Conjugation	HIS
Tissue specificity	Expressed in granulosa and cumulus cells. Expressed in hepatocellular carcinoma cells, but not in non-cancerous liver tissue.
Biological activity	Bioactivity:The bioactivity is determined by dose-dependent effect of human FGF asic on proliferation of BaF3 cells transfected with FGF receptor. We recommend that the

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	optimal concentration for each specific application be determined by an initial dose-r
Form	Lyophilised:It is recommended to reconstitute the lyophilized protein in sterile water to a concentration of no less than 100 µg/ml. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA).
Purity	>95% by SDS-PAGE
Storage buffer	Preservative: NoneConstituents: 50mM Sodium chloride, 20mM Tris, pH 7.5
Storage	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid repeated freeze / thaw cycles.
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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