

Active Recombinant Human FGF2 protein, ERHV-His-tagged

Cat. No. FGF2-19H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human FGF2 fused with ERHV-His tag was expressed in Barley grain.
Species	Human
Source	Barley Grain
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.
Form	Lyophilized from PBS pH 7.2
Bio-activity	Bioactivity of recombinant human FGFB is assayed by measuring its dose dependent effect on proliferation of 3T3 cells. The ED50 for this effect using FGF basic 146 is typically < 0.4 ng/mL, corresponding to a specific activity > 2.5 x10 ⁶ U/mg.
Molecular Mass	17.8 kDa

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Endotoxin	Endotoxin level is less than 0.005ng per ug protein (0.05EU/ug) as measured by turbidimetric kinetic assay
Purity	> 95% by SDS-PAGE
Applications	Western Blot (Recombinant protein); Functional Study; SDS-PAGE
Storage	Store at -20 centigrade on dry atmosphere. After reconstitution with sterile water to a concentration of no less than 100 ug/mL, store at -20 centigrade. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Aliquot to avoid repeated freezing and thawing.
Concentration	100 ug/mL

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;