

Recombinant Human FGF2 protein, GST-tagged

Cat. No. FGF2-22H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human FGF2(189 a.a. - 288 a.a.) fused with GST tag at N-terminal was expressed in Wheat Germ.
Species	Human
Source	Wheat Germ
ProteinLength	189-288 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.
Form	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.
Molecular Mass	36.74 kDa
AA Sequence	SDPHIKLQLQAEERGVSIGVVCANRYLAMKEDGRLLASKCVTDECFFFERLESNNY

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NTYRSRKYTSWYVALKRT GQYKLGSKTGPGQKAILFLPMSAKS

Applications

Enzyme-linked Immunoabsorbent Assay; Western Blot (Recombinant protein);
Antibody Production; Protein Array

Notes

Best use within three months from the date of receipt of this protein.

Storage

Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.

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

UniProt ID

P09038

**Chromosome
Location**

4q26

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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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