

# Recombinant Human Fibroblast Growth Factor Receptor 1, His-tagged

**Cat. No.** FGFR1-5417H    **Lot. No.** (See product label)

## SPECIFICATION

|                          |                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|--------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b>  | Recombinant humanFGFR1 catalytic domain (amino acids 308-731), His-tagged. No special measureswere taken to activate this kinase.                                                                                                                                                                                                                                                                                                  |
| <b>Species</b>           | Human                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Source</b>            | Insect Cells                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>ProteinLength</b>     | 308-731 a.a.                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Description</b>       | FGFs comprise a family of atleast eighteen structurally realted proteins that are involved in a multitudeof physiological and pathological cellular processes, including cell growth,differentiation, angiogenesis, wound healing and tumorigenesis. The biologicalactivities of the FGFs are mediated by a family if type I transmembranetyrosine kinases which undergo dimerization and autophosphorylation afterligand binding. |
| <b>Form</b>              | Liquid in50 mM Tris, pH 7.5 + 100 mM NaCl + 0.2 mM EDTA + 0.05% Triton X-100 + 5mM DTT+ 50% glycerol.                                                                                                                                                                                                                                                                                                                              |
| <b>Molecular Weight</b>  | 50.4 kDa                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Purity</b>            | ≥ 90% as determinedby SDS-PAGE analysis                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Specific Activity</b> | 620 nmoleof phosphate transferred to poly [Glu,Tyr] 4:1 substrate per minute per mg                                                                                                                                                                                                                                                                                                                                                |

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of total protein at 30°C. Activity determined at a final protein concentration of 2µg/ml.

**Storage** Stable for 6 months in working aliquots at -80°C. Avoid repeated freeze-thaw cycles.

**Official Symbol** FGFR1

## GENE INFORMATION

**Gene Name** [FGFR1 fibroblast growth factor receptor 1 \[ Homo sapiens \]](#)

### Synonyms

FGFR1; fibroblast growth factor receptor 1; CEK; FLG; OGD; FLT2; KAL2; BFGFR; CD331; FGFR; HBGR; N-SAM; FLJ99988; fms-related tyrosine kinase 2; H2; H3; H4; H5; N-SAM; CD331; Pfeiffer syndrome; FGFR-1; bFGF-R; EC 2.7.10.1; Fms-like tyrosine kinase 2; c-fgr; CD\_antigen; OTTHUMP00000190881; soluble FGFR1 variant 1; FMS-like tyrosine kinase 2; hydroxyaryl-protein kinase; heparin-binding growth factor receptor; basic fibroblast growth factor receptor 1; OTTHUMP00000190874; OTTHUMP00000190878; OTTHUMP00000190879; c-fgr; soluble FGFR1 variant 2

**Gene ID** [2260](#)

**mRNA Refseq** [NM\\_015850](#)

**Protein Refseq** [NP\\_056934](#)

**MIM** [136350](#)

**UniProt ID** P11362

**Chromosome Location** 8p11.2-p11.1

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**Pathway**

Adherens junction; Axonguidance; Developmental Biology; Downstream signaling of activated FGFR; EndochondralOssification; FGF signaling pathway; FGFR ligand binding and activation; FRS2-mediatedcascade; Glypican 1 network; IRS-mediated signalling; Insulin receptorsignalling cascade; L1CAM interactions; MAPK signaling pathway; Melanoma; N-cadherinsignaling events; Negative regulation of FGFR signaling

**Function**

ATP binding; fibroblast growthfactor receptor activity; fibroblast growth factor receptor activity; heparinbinding; nucleotide binding; protein binding; receptor activity; transferaseactivity

**PDBrendering based  
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