

## Recombinant Human FGFR1 protein, His-tagged

Cat. No. FGFR1-18H Lot. No. (See product label)

### SPECIFICATION

**Product Overview** Recombinant Human FGFR1 protein (Arg22-Ile376), fused to His tag at C-terminus, was expressed in human 293 cells (HEK293).

**Species** Human

**Source** HEK293

**ProteinLength** 355

#### Description

Fibroblast growth factor receptor 1 (FGFR1) is also known as basic fibroblast growth factor receptor 1(BFGFR1), FMS-like tyrosine kinase, CD331, and is a receptor tyrosine kinase whose ligands are specific members of the fibroblast growth factor family. This protein is one of several fibroblast growth factor receptors, which are related proteins that are involved in important processes such as cell division, regulation of cell growth and maturation, formation of blood vessels, wound healing, and embryonic development. The FGFR1 protein spans the cell membrane, so that one end of the protein remains inside the cell and the other end projects from the outer surface of the cell. This positioning allows the FGFR1 protein to interact with specific growth factors outside the cell and to receive signals that help the cell respond to its environment. When growth factors attach to the FGFR1 protein, the receptor triggers a cascade of chemical reactions inside the cell that instruct the cell to undergo certain changes, such as maturing to take on specialized functions. The FGFR1 protein is thought to play an important role in the development of the nervous system. This protein may also help regulate the growth of long bones, such as the

 Tel: 1-631-559-9269 1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

	large bones in the arms and legs.
<b>Form</b>	Lyophilized from 0.22 um filtered solution in PBS, pH7.4, 10% trehalose.
<b>Molecular Mass</b>	The protein has a calculated MW of 42.5 kDa. The protein migrates as 60-90 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.
<b>Endotoxin</b>	Less than 1.0 EU per ug by the LAL method.
<b>Purity</b>	>95% as determined by SDS-PAGE.
<b>Storage</b>	<p>For long term storage, the product should be stored at lyophilized state at -20 centigrade or lower.</p> <p>Please avoid repeated freeze-thaw cycles.</p> <p>This product is stable after storage at:</p> <p>-20 centigrade to -70 centigrade for 12 months in lyophilized state;</p> <p>-70 centigrade for 3 months under sterile conditions after reconstitution.</p>
<b>Reconstitution</b>	It is recommended that sterile water be added to the vial to prepare a stock solution of 0.2 ug/ul. Centrifuge the vial at 4°C before opening to recover the entire contents.

## GENE INFORMATION

<b>Gene Name</b>	FGFR1
<b>Official Symbol</b>	FGFR1
<b>Synonyms</b>	FGFR1; fibroblast growth factor receptor 1; FLT2, fms related tyrosine kinase 2 , KAL2; BFGFR; CD331; CEK; FLG; H2; H3; H4; H5; N SAM; Pfeiffer syndrome; FGFR1/PLAG1 fusion; proto-oncogene c-Fgr; FMS-like tyrosine kinase 2; hydroxyaryl-protein kinase; fms-related tyrosine kinase 2; heparin-binding growth

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factor receptor; basic fibroblast growth factor receptor 1; OGD; FLT2; KAL2; FGFR; FLT-2; HBGFR; N-SAM; FGFR-1; bFGF-R-1; FLJ99988

**Gene ID** 2260

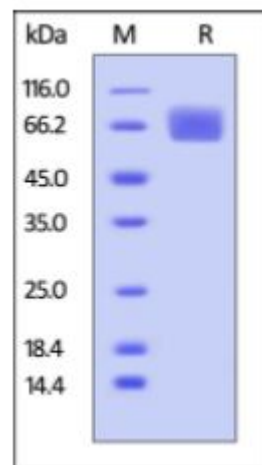
**mRNA Refseq** NM\_001174063

**Protein Refseq** NP\_001167534

**MIM** 136350

**UniProt ID** P11362

**SDS-PAGE of  
FGFR1-18H**



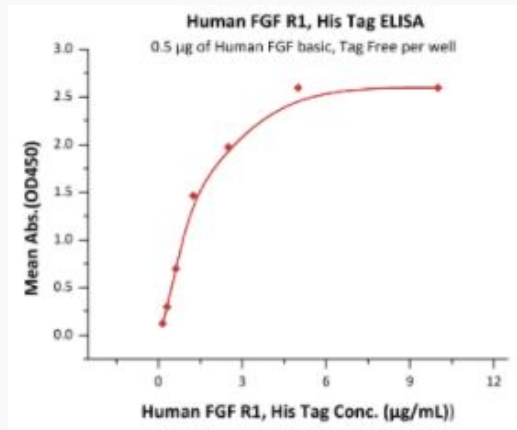
Human FGF R1, His Tag on SDS-PAGE under reducing (R) condition. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 95%.

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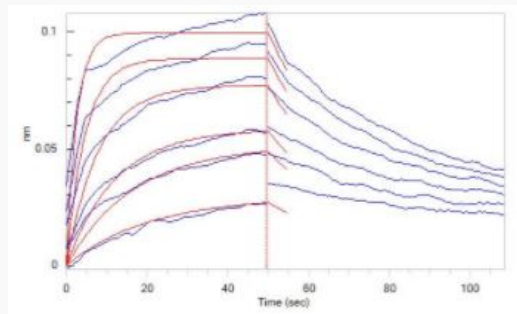
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**Bioactivity-ELISA of  
FGFR1-18H**



Immobilized Human FGF basic, Tag Free at 5 µg/mL (100 µL/well) can bind Human FGF R1, His Tag with a linear range of 0.156-1.25 µg/mL (QC tested).

**Bioactivity-BLI of  
FGFR1-18H**



Loaded Human FGF R1, His Tag on HIS1K Biosensor, can bind Human FGF acidic, Tag Free with an affinity constant of 0.16 µM as determined in BLI assay (Routinely tested).

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