

## Active Recombinant Human FGFR1 Protein, His/GST-tagged, Alexa Fluor 647 conjugated

**Cat. No.** FGFR1-236HAF647    **Lot. No.** (See product label)

### SPECIFICATION

|                                     |                                                                                                                                                                                                                                                                                                                                      |
|-------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b>             | Alexa Fluor 647 conjugated recombinant human FGFR1 isoform 4 (NP_075594.1) cytoplasmic domain (Gly 311-Arg 731) was fused with the N-terminal polyhistidine-tagged GST tag at the N-terminus.                                                                                                                                        |
| <b>Species</b>                      | Human                                                                                                                                                                                                                                                                                                                                |
| <b>Source</b>                       | Insect Cells                                                                                                                                                                                                                                                                                                                         |
| <b>ProteinLength</b>                | 658                                                                                                                                                                                                                                                                                                                                  |
| <b>Bio-activity</b>                 | <ol style="list-style-type: none"> <li>1. Kinase activity untested.</li> <li>2. Measured by its binding ability in a functional ELISA. Immobilized recombinant human FGFR1 (aa 311-731) at 10 µg/mL (100 µL/well) can bind biotinylated human FGF acidic with a linear range of 15.6-250 ng/mL.</li> <li>3. Measured by i</li> </ol> |
| <b>Molecular Mass</b>               | The recombinant human FGFR1 (aa 311-731) /GST chimera consists of 658 amino acids and has a calculated molecular mass of 75 kDa. It migrates as an approximately 75 kDa band as predicted in SDS-PAGE under reducing conditions.                                                                                                     |
| <b>N-terminal Sequence Analysis</b> | Met                                                                                                                                                                                                                                                                                                                                  |
| <b>Endotoxin</b>                    | < 1.0 EU/ µg of the protein as determined by the LAL method.                                                                                                                                                                                                                                                                         |

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|                       |                                                                                                                                                                     |
|-----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Purity</b>         | > 93 % as determined by SDS-PAGE                                                                                                                                    |
| <b>Characteristic</b> | Disulfide-linked homodimer<br>Labeled with Alexa Fluor 647 via amines<br>Excitation = 650 nm<br>Emission = 668 nm                                                   |
| <b>Stability</b>      | Samples are stable for up to 12 months from date of receipt at -70 centigrade.                                                                                      |
| <b>Storage</b>        | Store it under sterile conditions at -20 to -70 centigrade. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles. |
| <b>Storage Buffer</b> | Supplied as sterile 50 mM Tris, 100 mM NaCl, pH 8.0, 20% glycerol, 0.3 mM DTT.                                                                                      |
| <b>Conjugation</b>    | Alexa Fluor 647                                                                                                                                                     |

## GENE INFORMATION

|                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>       | FGFR1 fibroblast growth factor receptor 1 [ Homo sapiens ]                                                                                                                                                                                                                                                                                                                                                                                            |
| <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 factor receptor; basic fibroblast growth factor receptor 1; OGD; FLT2; KAL2; FGFR; FLT-2; HBGFR; N-SAM; FGFR-1; bFGF-R-1; FLJ99988; |
| <b>Gene ID</b>         | 2260                                                                                                                                                                                                                                                                                                                                                                                                                                                  |

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|----------------|------------------------------|
| mRNA Refseq    | <a href="#">NM_001174063</a> |
| Protein Refseq | <a href="#">NP_001167534</a> |
| MIM            | <a href="#">136350</a>       |
| UniProt ID     | <a href="#">P11362</a>       |

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