

# Recombinant Human Fibroblast Growth Factor Receptor 2, His-tagged

**Cat. No.** FGFR2-5418H    **Lot. No.** (See product label)

## SPECIFICATION

|                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|--------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b>  | Recombinant humanFGFR2 cytoplasmic domain (amino acids 403-822), His-tagged. No specialmeasures were taken to activate this kinase.                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Species</b>           | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Source</b>            | Insect Cells                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>ProteinLength</b>     | 403-822 a.a.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Description</b>       | This protein functions as amodifier of endothelial cell migration and proliferation, as well as anangiogenic factor. It acts as a mitogen for a variety of mesoderm-andneuroectoderm-derived cells in vitro, thus is thought to be involved inorganogenesis. Three alternatively spliced variants encoding differentisoforms have been described. The heparin-binding growth factors areangiogenic agents in vivo and are potent mitogens for a variety of cell typesin vitro. There are differences in the tissue distribution and concentrationof these 2 growth factors. |
| <b>MolecularWeight</b>   | 52.1 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Purity</b>            | ≥ 90% as determinedby SDS-PAGE analysis                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Specific Activity</b> | 2700nmole of phosphate transferred to poly [Glu,Tyr] 4:1 substrate per minute permg oftotalprotein at 30°C. Activity determined at a final protein concentration of 1µg/ml.                                                                                                                                                                                                                                                                                                                                                                                                 |

 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

|                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Storage</b>             | Stable for 6 months in working aliquots at -80°C. Avoid repeated freeze-thaw cycles.                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Official Symbol</b>     | FGFR2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>GENE INFORMATION</b>    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Gene Name</b>           | FGFR2 fibroblast growth factor receptor 2 [ Homo sapiens ]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Synonyms</b>            | FGFR2; fibroblast growth factor receptor 2; BEK; JWS; CEK3; CFD1; ECT1; KGFR; TK14; TK25; BFR-1; CD332; K-SAM; FLJ98662; FGFR2; KSAR; FGFR-2; KSAM; OTTHUMP00000020621; OTTHUMP00000020629; BEK fibroblast growth factor receptor; CD332 antigen; FGFR receptor; Jackson-Weiss syndrome; Keratinocyte growth factor receptor 2; bacteria-expressed kinase; craniofacial dysostosis 1; fibroblast growth factor receptor 2; hydroxyaryl-protein kinase; keratinocyte growth factor receptor; protein tyrosine kinase, receptor like 14; soluble FGFR4 variant 4 |
| <b>Gene ID</b>             | 2263                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>mRNA Refseq</b>         | NM_000141                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Protein Refseq</b>      | NP_000132                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>MIM</b>                 | 176943                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>UniProt ID</b>          | P21802                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Chromosome Location</b> | 10q26                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Pathway</b>             | Angiogenesis; Downstream signaling of activated FGFR; Endocytosis; FGF signaling pathway; FGFR ligand binding and activation; FGFR2 ligand binding and                                                                                                                                                                                                                                                                                                                                                                                                         |

 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

activation;FRS2-mediated cascade; IRS-mediated signalling; Insulin receptor signallingcascade; MAPK signaling pathway; Negative regulation of FGFR signaling; PI-3Kcascade; Pathways in cancer; Regulation of Actin Cytoskeleton; SHC-mediatedcascade

**Function**

ATP binding; fibroblast growthfactor receptor activity; heparin binding; nucleotide binding; proteinbinding; receptor activity; transferase activity

**PDBrendering based  
on 1djs.**

 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