

Bioactive

# FGFR1 (Human) Recombinant Protein

Catalog # P6490

Size 5 ug

## Applications

### Result of activity analysis

Result of activity analysis

□

## Specification

|                                |                                                                                                                                                                                                                                                                                   |
|--------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Description</b>     | Human FGFR1 (NP_075598.2, 398 a.a. - 822 a.a.) partial recombinant protein with GST-tag at N-terminal using baculovirus expression system.                                                                                                                                        |
| <b>Host</b>                    | Viruses                                                                                                                                                                                                                                                                           |
| <b>Form</b>                    | Liquid                                                                                                                                                                                                                                                                            |
| <b>Preparation Method</b>      | Baculovirus expression system.                                                                                                                                                                                                                                                    |
| <b>Purification</b>            | Glutathione sepharose chromatography.                                                                                                                                                                                                                                             |
| <b>Purity</b>                  | 0.83                                                                                                                                                                                                                                                                              |
| <b>Activity</b>                | The activity was measured by off-chip mobility shift assay (MSA). The enzyme was incubated with fluorescence-labeled substrate and Mg (or Mn)/ATP. The phosphorylated and unphosphorylated substrates were separated and detected by MSA device. Substrate: CSKtide, ATP: 100 uM. |
| <b>Quality Control Testing</b> | The purity was assessed by SDS-PAGE/CBB staining.                                                                                                                                                                                                                                 |
| <b>Storage Buffer</b>          | 50 mM Tris-HCl, 150 mM NaCl, 0.05% Brij35, 1 mM DTT, 10% glycerol, pH7.5                                                                                                                                                                                                          |
| <b>Storage Instruction</b>     | Stored at -80°C.<br>Aliquot to avoid repeated freezing and thawing.                                                                                                                                                                                                               |

|      |                             |
|------|-----------------------------|
| Note | Result of activity analysis |
|      | Result of activity analysis |

## Applications

- Functional Study

## Gene Info — FGFR1

|                    |                                                                                             |
|--------------------|---------------------------------------------------------------------------------------------|
| Entrez GeneID      | <a href="#">2260</a>                                                                        |
| Protein Accession# | <a href="#">NP_075598.2</a>                                                                 |
| Gene Name          | FGFR1                                                                                       |
| Gene Alias         | BFGFR, CD331, CEK, FGFBR, FLG, FLJ99988, FLT2, HBGFR, KAL2, N-SAM                           |
| Gene Description   | fibroblast growth factor receptor 1                                                         |
| Omim ID            | <a href="#">101600</a> <a href="#">123150</a> <a href="#">136350</a> <a href="#">147950</a> |
| Gene Ontology      | <a href="#">Hyperlink</a>                                                                   |

|              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|--------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Gene Summary | <p>The protein encoded by this gene is a member of the fibroblast growth factor receptor (FGFR) family, where amino acid sequence is highly conserved between members and throughout evolution . FGFR family members differ from one another in their ligand affinities and tissue distribution. A full-length representative protein consists of an extracellular region, composed of three immunoglobulin-like domains, a single hydrophobic membrane-spanning segment and a cytoplasmic tyrosine kinase domain. The extracellular portion of the protein interacts with fibroblast growth factors, setting in motion a cascade of downstream signals, ultimately influencing mitogenesis and differentiation. This particular family member binds both acidic and basic fibroblast growth factors and is involved in limb induction. Mutations in this gene have been associated with Pfeiffer syndrome, Jackson-Weiss syndrome, Antley-Bixler syndrome, osteoglophonic dysplasia, and autosomal dominant Kallmann syndrome 2. Chromosomal aberrations involving this gene are associated with stem cell myeloproliferative disorder and stem cell leukemia lymphoma syndrome. Alternatively spliced variants which encode different protein isoforms have been described; however, not all variants have been fully characterized. [provided by RefSeq]</p> |
|--------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

|                    |                                                                                                                                                                                                                                                                 |
|--------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Other Designations | FMS-like tyrosine kinase 2 OTTHUMP00000190874 OTTHUMP00000190878 OTTHUMP00000190879 OTTHUMP00000190881 basic fibroblast growth factor receptor 1 fms-related tyrosine kinase 2 fms-related tyrosine kinase-2 heparin-binding growth factor receptor hydroxyaryl |
|--------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

## Pathway

- [Adherens junction](#)
- [MAPK signaling pathway](#)
- [Melanoma](#)
- [Pathways in cancer](#)
- [Prostate cancer](#)
- [Regulation of actin cytoskeleton](#)

## Disease

- [Abnormalities](#)
- [Acrocephalosyndactylia](#)
- [Alzheimer disease](#)
- [Amenorrhea](#)
- [Anodontia](#)
- [Breast cancer](#)
- [Breast Neoplasms](#)
- [Bronchial Hyperreactivity](#)
- [Cardiovascular Diseases](#)
- [Chromosome Aberrations](#)
- [Chromosome Disorders](#)
- [Cleft Lip](#)
- [Cleft Palate](#)
- [Craniofacial Dysostosis](#)
- [Craniosynostoses](#)
- [Diabetes Complications](#)
- [Fractures](#)
- [Genetic Diseases](#)

- [Genetic Predisposition to Disease](#)
- [Hypersensitivity](#)
- [Hypogonadism](#)
- [Kallmann Syndrome](#)
- [Metabolic Syndrome X](#)
- [Neoplasms](#)
- [Obesity](#)
- [Osteoporosis](#)
- [Ovarian Failure](#)
- [Polycystic Ovary Syndrome](#)
- [Puberty](#)
- [Schizophrenia](#)
- [Sleep Apnea](#)
- [Thrombophilia](#)
- [Thyroid Neoplasms](#)
- [Tobacco Use Disorder](#)
- [Tooth Abnormalities](#)