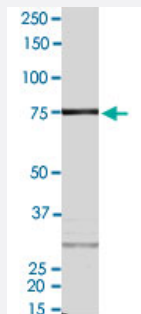


Bioactive

# FGFR4 (Human) Recombinant Protein

Catalog # P4693      Size 100 ug

## Applications



## Result of activity analysis

Result of activity analysis

□

## Specification

|                             |                                                                                                                   |
|-----------------------------|-------------------------------------------------------------------------------------------------------------------|
| <b>Product Description</b>  | Human FGFR4 (NM_002011, 391 a.a. - 802 a.a.) partial recombinant protein with GST-His tag expressed in Sf9 cells. |
| <b>Host</b>                 | insect                                                                                                            |
| <b>Theoretical MW (kDa)</b> | 75.726                                                                                                            |
| <b>Form</b>                 | Liquid                                                                                                            |
| <b>Preparation Method</b>   | Insect cell (Sf9) expression system                                                                               |
| <b>Purification</b>         | One-step affinity purification using GSH-agarose                                                                  |
| <b>Concentration</b>        | 0.245 ug/uL                                                                                                       |

|                         |                                                                                             |
|-------------------------|---------------------------------------------------------------------------------------------|
| Activity                | 47 pmol/ug x min                                                                            |
| Quality Control Testing | 2 ug/lane SDS-PAGE Stained with Coomassie Blue                                              |
| Storage Buffer          | In 50 mM Tris-HCl, 100 mM NaCl, pH 8.0. (5 mM DTT, 15 mM reduced glutathione, 20% glycerol) |
| Storage Instruction     | Store at -80°C.<br>Aliquot to avoid repeated freezing and thawing                           |
| Note                    | Result of activity analysis<br>Result of activity analysis                                  |

## Applications

- Functional Study
- SDS-PAGE

## Gene Info — FGFR4

|                    |                                     |
|--------------------|-------------------------------------|
| Entrez GeneID      | <a href="#">2264</a>                |
| Protein Accession# | <a href="#">NM_002011</a>           |
| Gene Name          | FGFR4                               |
| Gene Alias         | CD334, JTK2, MGC20292, TKF          |
| Gene Description   | fibroblast growth factor receptor 4 |
| Omim ID            | <a href="#">134935</a>              |
| Gene Ontology      | <a href="#">Hyperlink</a>           |

**Gene Summary**

The protein encoded by this gene is a member of the fibroblast growth factor receptor 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 would consist 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. The genomic organization of this gene, compared to members 1-3, encompasses 18 exons rather than 19 or 20. Although alternative splicing has been observed, there is no evidence that the C-terminal half of the IgIII domain of this protein varies between three alternate forms, as indicated for members 1-3. This particular family member preferentially binds acidic fibroblast growth factor and, although its specific function is unknown, it is overexpressed in gynecological tumor samples, suggesting a role in breast and ovarian tumorigenesis. [provided by RefSeq]

**Other Designations**

OTTHUMP00000161430|hydroxyaryl-protein kinase|protein-tyrosine kinase|tyrosine kinase related to fibroblast growth factor receptor|tyrosylprotein kinase

**Pathway**

- [Endocytosis](#)
- [MAPK signaling pathway](#)
- [Regulation of actin cytoskeleton](#)

**Disease**

- [ACTH-Secreting Pituitary Adenoma](#)
- [Adenocarcinoma](#)
- [Bone Neoplasms](#)
- [Breast cancer](#)
- [Breast Neoplasms](#)
- [Bronchial Hyperreactivity](#)
- [Carcinoma](#)
- [Cleft Lip](#)
- [Cleft Palate](#)
- [Colon cancer](#)

- [Colorectal Neoplasms](#)
- [Disease Progression](#)
- [Esophageal Neoplasms](#)
- [Genetic Predisposition to Disease](#)
- [Head and Neck Neoplasms](#)
- [Hypersensitivity](#)
- [Irritable Bowel Syndrome](#)
- [Kidney Failure](#)
- [Liver Neoplasms](#)
- [Lung carcinoma](#)
- [Lung Neoplasms](#)
- [Lymphatic Metastasis](#)
- [Malignant melanoma](#)
- [Melanoma](#)
- [Mouth Neoplasms](#)
- [Neoplasm Metastasis](#)
- [Pituitary ACTH Hypersecretion](#)
- [Pituitary Neoplasms](#)
- [Prostate cancer](#)
- [Prostatic Hyperplasia](#)
- [Prostatic Neoplasms](#)
- [Recurrence](#)
- [Sarcoma](#)
- [Skin Neoplasms](#)
- [Soft Tissue Neoplasms](#)
- [Thyroid Neoplasms](#)

- [Urinary Bladder Neoplasms](#)