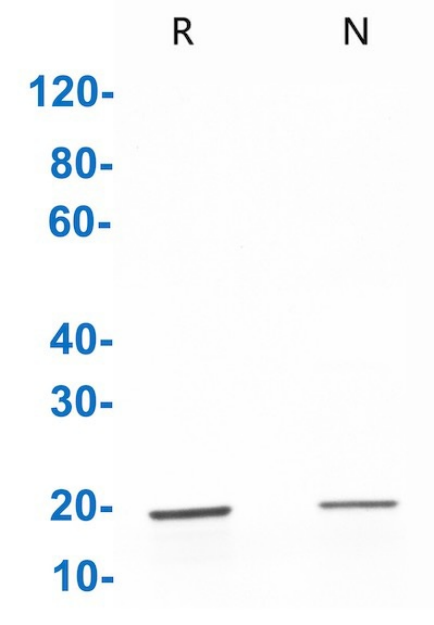
Bioactive

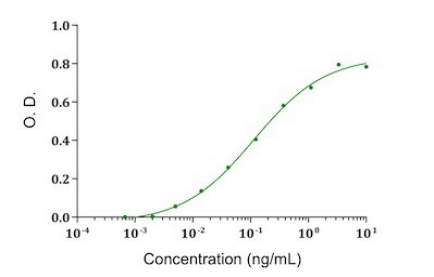
# FGF2 (Human) Recombinant Protein

Catalog # P7371 Size 10 ug

## Applications




2 ug of FGF2 (Human) Recombinant Protein (Cat # P7371) was resolved with SDS-PAGE under reducing (R) and non-reducing (N) conditions and visualized by Coomassie Blue staining.




### Result of activity analysis PAGE

Result of activity analysis
PAGE

## Specification

| | |
|---|---|
| **Product Description** | Human FGF2 (P09038, 135 a.a. - 288 a.a ) partial recombinant protein expressed in *Escherichia coli*. |
| **Sequence** | AAGSITTLPALPEDGGSGAFPPGHFKDPKRLYCKNGGFFLRIHPDGRVDGVREKSDPHIKLQLQA EERGVVSIKGVCANRYLAMKEDGRLLASKCVTDECFFFERLESNNYNTYRSRKYTSWYVALKRTG QYKLGSKTGPGQKAILFLPMSAKS |

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| | |
|---|---|
| **Host** | Escherichia coli |
| **Theoretical MW (kDa)** | 17.1 |
| **Form** | Lyophilized |
| **Preparation Method** | *Escherichia coli* expression system |
| **Purity** | > 95% as analyzed by SDS-PAGE. |
| **Endotoxin Level** | < 0.2 EU/ug of protein by gel clotting method |
| **Activity** | $ED_{50}$ < 0.25 ng/ml, measured by the cell proliferation assay using 3T3 cells, corresponding to a specific activity of > $4.0 \times 10^6$ units/mg. |
| **Recommend Usage** | Biological Activity<br>SDS-PAGE<br>The optimal working dilution should be determined by the end user. |
| **Storage Buffer** | Lyophilized from PBS. Reconstitute the lyophilized powder in dd$H_2O$ up to 100 ug/mL. |
| **Storage Instruction** | Store at 4°C to 8°C for 1 week. For long term storage store at -20°C to -80°C.<br>Aliquot to avoid repeated freezing and thawing. |
| **Note** | Result of activity analysis<br>PAGE<br>Result of activity analysis<br>PAGE |

## Applications

- Functional Study
- SDS-PAGE

## Gene Info — FGF2

| | |
|---|---|
| **Entrez GeneID** | 2247 |
| **Protein Accession#** | P09038 |
| **Gene Name** | FGF2 |
| **Gene Alias** | BFGF, FGFB, HBGF-2 |
| **Gene Description** | fibroblast growth factor 2 (basic) |

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| | |
|---|---|
| **Omim ID** | 134920 |
| **Gene Ontology** | Hyperlink |
| **Gene Summary** | The protein encoded by this gene is a member of the fibroblast growth factor (FGF) family. FGF family members bind heparin and possess broad mitogenic and angiogenic activities. This protein has been implicated in diverse biological processes, such as limb and nervous system development, wound healing, and tumor growth. The mRNA for this gene contains multiple polyadenylation sites, and is alternatively translated from non-AUG (CUG) and AUG initiation codons, resulting in five different isoforms with distinct properties. The CUG-initiated isoforms are localized in the nucleus and are responsible for the intracrine effect, whereas, the AUG-initiated form is mostly cytosolic and is responsible for the paracrine and autocrine effects of this FGF. [provided by RefSeq |
| **Other Designations** | basic fibroblast growth factor bFGF\|fibroblast growth factor 2\|heparin-binding growth factor 2\|prostatropin |

## Pathway

- MAPK signaling pathway
- Melanoma
- Pathways in cancer
- Regulation of actin cytoskeleton

## Disease

- Alzheimer disease
- Arthritis
- Birth Weight
- Cardiovascular Diseases
- Chorioamnionitis
- Cleft Lip
- Cleft Palate
- Depressive Disorder
- Diabetes Complications
- Diabetes Mellitus

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- Diabetic Retinopathy
- Edema
- Fetal Membranes
- Gastrointestinal Diseases
- Genetic Predisposition to Disease
- Glioblastoma
- Glioma
- Head and Neck Neoplasms
- Kidney Failure
- Leukemia
- Meningeal Neoplasms
- Meningioma
- Metabolic Syndrome X
- Myocardial Infarction
- Myopia
- Neoplasm Recurrence
- Neoplasms
- Neovascularization
- Obstetric Labor
- Osteoporosis
- Ovarian cancer
- Ovarian Neoplasms
- Pre-Eclampsia
- Premature Birth

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