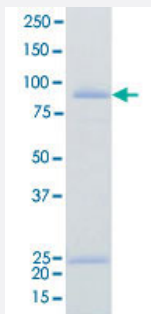


Bioactive

# EGFR (T790M) (Human) Recombinant Protein

Catalog # P5702      Size 5 ug

## Applications



## Result of activity analysis

Result of activity analysis

## Specification

|                             |                                                                                                                                                    |
|-----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Description</b>  | Human EGFR (NP_005219.2, 669 a.a. - 1210 a.a.) T790M mutant parial recombinant protein with G ST tag expressed in Baculovirus infected Sf21 cells. |
| <b>Host</b>                 | insect                                                                                                                                             |
| <b>Theoretical MW (kDa)</b> | 89                                                                                                                                                 |
| <b>Form</b>                 | Liquid                                                                                                                                             |
| <b>Preparation Method</b>   | Baculovirus infected insect cell (Sf21) expression system                                                                                          |
| <b>Purification</b>         | Glutathione sepharose chromatography                                                                                                               |
| <b>Purity</b>               | 61 % by SDS-PAGE/CBB staining.                                                                                                                     |

|                                |                                                                                                                                                                                                                                                                                    |
|--------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Activity</b>                | The activity was measured by off-chip mobility shift assay. The enzyme was incubated with fluorescence-labeled substrate and Mg (or Mn)/ATP. The phosphorylated and unphosphorylated substrates were separated and detected by LabChip™3000.<br>Substrate : Src tide. ATP: 100 μM. |
| <b>Quality Control Testing</b> | Loading 1 ug protein in SDS-PAGE                                                                                                                                                                                                                                                   |
| <b>Storage Buffer</b>          | In 50 mM Tris-HCl, 150 mM NaCl, pH 7.5 (0.05% Brij35, 1 mM DTT, 10% glycerol)                                                                                                                                                                                                      |
| <b>Storage Instruction</b>     | Store at -80°C.<br>Aliquot to avoid repeated freezing and thawing.                                                                                                                                                                                                                 |
| <b>Note</b>                    | Result of activity analysis<br>Result of activity analysis                                                                                                                                                                                                                         |

## Applications

- Functional Study
- SDS-PAGE

## Gene Info — EGFR

|                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|---------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Entrez GeneID</b>      | <a href="#">1956</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Protein Accession#</b> | <a href="#">NP_005219.2</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Gene Name</b>          | EGFR                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Gene Alias</b>         | ERBB, ERBB1, HER1, PIG61, mENA                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Gene Description</b>   | epidermal growth factor receptor (erythroblastic leukemia viral (v-erb-b) oncogene homolog, avian )                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Omim ID</b>            | <a href="#">131550</a> <a href="#">211980</a>                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Gene Ontology</b>      | <a href="#">Hyperlink</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Gene Summary</b>       | The protein encoded by this gene is a transmembrane glycoprotein that is a member of the protein kinase superfamily. This protein is a receptor for members of the epidermal growth factor family. EGFR is a cell surface protein that binds to epidermal growth factor. Binding of the protein to a ligand induces receptor dimerization and tyrosine autophosphorylation and leads to cell proliferation. Mutations in this gene are associated with lung cancer. [provided by RefSeq] |
| <b>Other Designations</b> | avian erythroblastic leukemia viral (v-erb-b) oncogene homolog cell growth inhibiting protein 40 cell proliferation-inducing protein 61 epidermal growth factor receptor                                                                                                                                                                                                                                                                                                                 |

## Pathway

- [Adherens junction](#)
- [Bladder cancer](#)
- [Calcium signaling pathway](#)
- [Colorectal cancer](#)
- [Cytokine-cytokine receptor interaction](#)
- [Dorso-ventral axis formation](#)
- [Endocytosis](#)
- [Endometrial cancer](#)
- [Epithelial cell signaling in Helicobacter pylori infection](#)
- [ErbB signaling pathway](#)
- [Focal adhesion](#)
- [Gap junction](#)
- [Glioma](#)
- [GnRH signaling pathway](#)
- [MAPK signaling pathway](#)
- [Melanoma](#)
- [Non-small cell lung cancer](#)
- [Pancreatic cancer](#)
- [Pathways in cancer](#)
- [Prostate cancer](#)
- [Regulation of actin cytoskeleton](#)

## Disease

- [Adenocarcinoma](#)

- [Anus Neoplasms](#)
- [Asthma](#)
- [Astrocytoma](#)
- [Atherosclerosis](#)
- [Barrett Esophagus](#)
- [Bile Duct Neoplasms](#)
- [Biliary Tract Neoplasms](#)
- [Bipolar Disorder](#)
- [Brain Neoplasms](#)
- [Breast cancer](#)
- [Breast Neoplasms](#)
- [Bronchial Hyperreactivity](#)
- [Carcinoma](#)
- [Cardiomyopathy](#)
- [Cardiovascular Diseases](#)
- [Cell Transformation](#)
- [Central Nervous System Neoplasms](#)
- [Cervical Intraepithelial Neoplasia](#)
- [Cholangiocarcinoma](#)
- [Chromosome Aberrations](#)
- [Chromosome Deletion](#)
- [Cleft Lip](#)
- [Cleft Palate](#)
- [Cocarcinogenesis](#)
- [Colon cancer](#)
- [Colonic Neoplasms](#)

- [Colorectal Neoplasms](#)
- [Cystadenocarcinoma](#)
- [Diabetes Mellitus](#)
- [Diarrhea](#)
- [Disease Progression](#)
- [Disease Susceptibility](#)
- [DNA Damage](#)
- [Drug Eruptions](#)
- [Drug Toxicity](#)
- [Edema](#)
- [Endometrial Neoplasms](#)
- [Endometriosis](#)
- [Esophageal Neoplasms](#)
- [Exanthema](#)
- [Genetic Diseases](#)
- [Genetic Predisposition to Disease](#)
- [Glioblastoma](#)
- [Glioma](#)
- [Head and Neck Neoplasms](#)
- [Hepatitis C](#)
- [HIV Infections](#)
- [Hyperparathyroidism](#)
- [Hypersensitivity](#)
- [Hypopharyngeal Neoplasms](#)
- [Kidney Failure](#)
- [Kidney Neoplasms](#)

- [Liver Diseases](#)
- [Liver Neoplasms](#)
- [Lung carcinoma](#)
- [Lung Neoplasms](#)
- [Lupus Erythematosus](#)
- [Lymphatic Metastasis](#)
- [Mental Disorders](#)
- [Mouth Neoplasms](#)
- [Myoma](#)
- [Nasopharyngeal Neoplasms](#)
- [Neoplasm Invasiveness](#)
- [Neoplasm Metastasis](#)
- [Neoplasm Recurrence](#)
- [Neoplasms](#)
- [Osteosarcoma](#)
- [Otorhinolaryngologic Neoplasms](#)
- [Ovarian cancer](#)
- [Ovarian Neoplasms](#)
- [Pancreatic cancer](#)
- [Pancreatic Neoplasms](#)
- [Papillomavirus Infections](#)
- [Polycystic Kidney](#)
- [Polycystic kidney disease](#)
- [Precancerous Conditions](#)
- [Prostate cancer](#)
- [Prostatic Hyperplasia](#)

- [Prostatic Neoplasms](#)
- [Pulmonary Disease](#)
- [Ras oncogene](#)
- [Rectal Neoplasms](#)
- [Recurrence](#)
- [Skin Neoplasms](#)
- [Small Cell Lung Carcinoma](#)
- [Stomach Neoplasms](#)
- [Thyroid Neoplasms](#)
- [Tongue Neoplasms](#)
- [Tonsillar Neoplasms](#)
- [Urinary Bladder Neoplasms](#)
- [Urinary Calculi](#)
- [Uterine Cervical Neoplasms](#)
- [Uterine Neoplasms](#)
- [Viremia](#)
- [Werner syndrome](#)