

Bioactive

## EGF (Human) Recombinant Protein

Catalog # P7534

Size 10 ug

### Specification

|                             |                                                                                                                                                                                    |
|-----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Description</b>  | Human EGF (P01133, 971 a.a. - 1023 a.a.) partial recombinant protein with His tag at C-terminus expressed with an N terminal Met in <i>Escherichia coli</i> .                      |
| <b>Sequence</b>             | NSDSECPLSHDGYCLHDGVCMYIEALDKYACNCVVGYGERCQYRDLKWWELR                                                                                                                               |
| <b>Host</b>                 | <i>Escherichia coli</i>                                                                                                                                                            |
| <b>Theoretical MW (kDa)</b> | 7.2                                                                                                                                                                                |
| <b>Form</b>                 | Lyophilized                                                                                                                                                                        |
| <b>Preparation Method</b>   | <i>Escherichia coli</i> expression system                                                                                                                                          |
| <b>Purity</b>               | > 95% by SDS-PAGE                                                                                                                                                                  |
| <b>Endotoxin Level</b>      | < 0.2 EU per 1 ug of protein (determined by gel clotting method)                                                                                                                   |
| <b>Activity</b>             | The ED <sub>50</sub> was determined by a cell proliferation assay using Balb/c 3T3 cells is < 0.2 ng/mL, corresponding to a specific activity of > 5.0 × 10 <sup>6</sup> units/mg. |
| <b>Storage Buffer</b>       | Lyophilized from sterile distilled Water up to 100 ug/mL                                                                                                                           |
| <b>Storage Instruction</b>  | Store at 4°C to 8°C for 1 week. For long term storage store at -20°C to -80°C. Aliquot to avoid repeated freezing and thawing.                                                     |

### Applications

- Functional Study
- SDS-PAGE

## Gene Info — EGF

Entrez GeneID [1950](#)

Protein Accession# [P01133](#)

Gene Name EGF

Gene Alias HOMG4, URG

Gene Description epidermal growth factor (beta-urogastrone)

Omim ID [131530](#)

Gene Ontology [Hyperlink](#)

**Gene Summary** Epidermal growth factor has a profound effect on the differentiation of specific cells in vivo and is a potent mitogenic factor for a variety of cultured cells of both ectodermal and mesodermal origin. The EGF precursor is believed to exist as a membrane-bound molecule which is proteolytically cleaved to generate the 53-amino acid peptide hormone that stimulates cells to divide. [provided by RefSeq]

**Other Designations** urogastrone

## Pathway

- [Bladder cancer](#)
- [Cytokine-cytokine receptor interaction](#)
- [Endocytosis](#)
- [Endometrial cancer](#)
- [ErbB signaling pathway](#)
- [Focal adhesion](#)
- [Gap junction](#)
- [Glioma](#)
- [MAPK signaling pathway](#)
- [Melanoma](#)
- [Non-small cell lung cancer](#)

- [Pancreatic cancer](#)
- [Pathways in cancer](#)
- [Prostate cancer](#)
- [Regulation of actin cytoskeleton](#)

## Disease

- [Abortion](#)
- [Adenocarcinoma](#)
- [Alcoholism](#)
- [Arthritis](#)
- [Autistic Disorder](#)
- [Barrett Esophagus](#)
- [Birth Weight](#)
- [Brain Neoplasms](#)
- [Breast cancer](#)
- [Breast Neoplasms](#)
- [Carcinoma](#)
- [Cardiovascular Diseases](#)
- [Chronic Disease](#)
- [Cleft Lip](#)
- [Cleft Palate](#)
- [Colorectal Neoplasms](#)
- [Depressive Disorder](#)
- [Diabetes Mellitus](#)
- [Disease Progression](#)
- [Disease Susceptibility](#)

- [Edema](#)
- [Esophageal Neoplasms](#)
- [Fetal Growth Retardation](#)
- [Gallbladder Neoplasms](#)
- [Gastroesophageal Reflux](#)
- [Genetic Diseases](#)
- [Genetic Predisposition to Disease](#)
- [Glioblastoma](#)
- [Glioma](#)
- [Hepatitis B](#)
- [Hepatitis C](#)
- [HIV Infections](#)
- [Hyperparathyroidism](#)
- [Hypertension](#)
- [Kidney Failure](#)
- [Kidney Neoplasms](#)
- [Liver Cirrhosis](#)
- [Liver Neoplasms](#)
- [Lung carcinoma](#)
- [Lung Neoplasms](#)
- [Lymphatic Metastasis](#)
- [Malignant melanoma](#)
- [Melanoma](#)
- [Meningioma](#)
- [Mental Disorders](#)
- [Nasopharyngeal Neoplasms](#)

- [Neoplasm Invasiveness](#)
- [Neoplasm Metastasis](#)
- [Neoplasm Recurrence](#)
- [Neoplasms](#)
- [Neovascularization](#)
- [Nervous System Neoplasms](#)
- [Neurilemmoma](#)
- [Nevus](#)
- [Ovarian cancer](#)
- [Ovarian Neoplasms](#)
- [Periodontitis](#)
- [Personality Tests](#)
- [Precancerous Conditions](#)
- [Pre-Eclampsia](#)
- [Prostate cancer](#)
- [Prostatic Neoplasms](#)
- [Psychiatric Status Rating Scales](#)
- [Pulmonary Disease](#)
- [Reaction Time](#)
- [Rectal Neoplasms](#)
- [Respiratory Distress Syndrome](#)
- [Schizophrenia](#)
- [Schizophrenic Psychology](#)
- [Skin Neoplasms](#)
- [Startle Reaction](#)
- [Stomach Neoplasms](#)

- [Stress](#)
- [Tobacco Use Disorder](#)
- [Urinary Bladder Neoplasms](#)
- [Uterine Cervical Neoplasms](#)
- [Viremia](#)
- [Werner syndrome](#)