

Bioactive

EGF (Human) Recombinant Protein

Catalog # P7147

Size 100 ug

Applications

Result of bioactivity analysis

Result of bioactivity analysis

Specification

Product Description	Human EGF (P01133, 971 a.a. - 1023 a.a.) partial recombinant protein expressed in <i>Escherichia coli</i> .
Sequence	NSDSECPLSHDGYCLHDGVCMYIEALDKYACNCVVGYGIERCQYRDLKWWELR
Host	Escherichia coli
Theoretical MW (kDa)	6.2
Form	Lyophilized
Preparation Method	<i>Escherichia coli</i> expression system
Purity	> 95% by SDS-PAGE
Endotoxin Level	< 1 EU per 1 ug of protein (determined by gel clotting method)
Activity	The ED ₅₀ was determined by the cell proliferation assay using Balb/3T3 mouse embryonic fibroblast s in serum-free medium and CellTiter-Glo cell viability assay is < 0.6 ng/ml, corresponding to a specific activity of > 1.7 x 10 ⁶ units/mg.
Storage Buffer	Lyophilized from sterile distilled Water 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.
Aliquot to avoid repeated freezing and thawing.

Note

Result of bioactivity analysis
Result of bioactivity analysis

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](#)