

Bioactive

EGF (Human) Recombinant Protein

Catalog # P8544

Size 100 ug

Specification

Product Description	Human EGF (P01133) 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	> 98% by SDS-PAGE
Activity	The ED ₅₀ as determined by a cell proliferation assay using murine Balb/c 3T3 cells is less than 0.1 ng/mL, corresponding to a specific activity of >1.0x10 ⁷ IU/mg.
Storage Buffer	Lyophilized from PBS pH-7.4.
Storage Instruction	Store at -20°C. Aliquot the product after reconstitution to avoid repeated freezing/thawing cycles.

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](#)