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 *Escherichia coli*.
Sequence	NSDSECPLSHDGYCLHDGVCMYIEALDKYACNCVVGYIGERCQYRDLKWWELR
Host	Escherichia coli
Theoretical MW (kDa)	6.2
Form	Lyophilized
Preparation Method	*Escherichia coli* 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 fibroblasts in serum-free medium and CellTiter-Glo cell viability assay is < 0.6 ng/ml, corresponding to a specific activity of > 1.7×10^6 units/mg.
Storage Buffer	Lyophilized from sterile distilled Water up to 100 ug/ml

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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 cl eaved to generate the 53-amino acid peptide hormone that stimulates cells to divide. [provided b y RefSeq
Other Designations	urogastrone

Pathway

- Bladder cancer
- Cytokine-cytokine receptor interaction
- Endocytosis

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- 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

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- 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

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- 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

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- 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

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