Bioactive

EGF (Human) Recombinant Protein

Catalog # P4381 Size 500 ug

Applications

Result of activity analysis

Result of activity analysis

3T3 cells were cultured with 0 to 1 ng/mL human EGF. Cell proliferation was measured after 40 hours and the linear portion of the curve was us used to calculate the ED50.

Specification

Product Description	Human EGF (P01133) recombinant protein expressed in *Escherichia coli*.
Sequence	NSDSECPLSHDGYCLHDGVCMYIEALDKYACNCVVGYIGERCQYRDLKWWELR
Host	Escherichia coli
Theoretical MW (kDa)	6.2
Form	Lyophilized
Preparation Method	*Escherichia coli* expression system
Endotoxin Level	< 0.1 EU/ug
Activity	The activity is determined by the dose-dependent proliferation of murine BALB/c 3T3 cells. The expected ED_{50} for this effect is 16-24 pg/mL.
Storage Buffer	No additive
Storage Instruction	Store at -20°C on dry atmosphere. After reconstitution with sterilized water, store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

Copyright © 2023 Abnova Corporation. All Rights Reserved.

Note	Result of activity analysis Result of activity analysis 3T3 cells were cultured with 0 to 1 ng/mL human EGF. Cell proliferation was measured after 40 hours and the linear portion of the curve was us used to calculate the ED50.

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

Copyright © 2023 Abnova Corporation. All Rights Reserved.

- 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

Copyright © 2023 Abnova Corporation. All Rights Reserved.

- 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

Copyright © 2023 Abnova Corporation. All Rights Reserved.

- 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

Copyright © 2023 Abnova Corporation. All Rights Reserved.

- 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

Copyright © 2023 Abnova Corporation. All Rights Reserved.