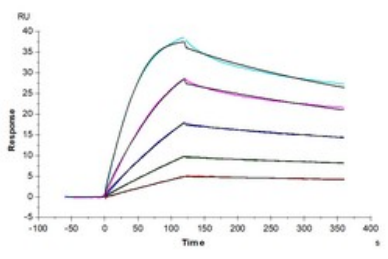
Bioactive HuPro®

EGF (Human) Recombinant Protein

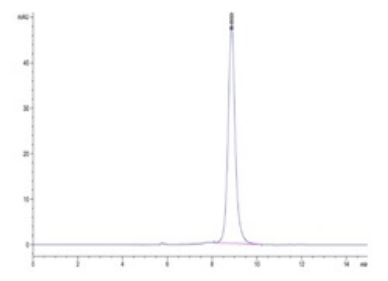
Catalog # P9749 Size 100 ug

Applications



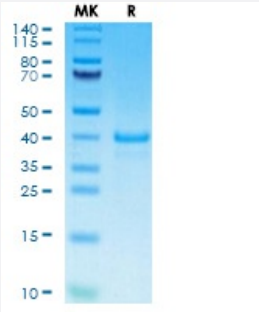
Surface Plasmon Resonance

Human EGFR, His Tag captured on CM5 Chip via anti-his antibody can bind Human EGF, hFc Tag with an affinity constant of 0.16 nM as determined in SPR assay (Biacore T200).



SEC-HPLC

The purity of Human EGF is greater than 95% as determined by SEC-HPLC.



Tris-Bis PAGE

Human EGF on Tris-Bis PAGE under reduced condition. The purity is greater than 95%.

Specification

Product Description	Human EGF (P01133-1, Asn971-Arg1023) partial recombinant protein with hFc tag at N-terminus expressed in HEK293 cells.

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Sequence	Asn971-Arg1023
Host	Human
Theoretical MW (kDa)	32.52
Form	Lyophilized
Preparation Method	Mammalian cell (HEK293) expression system
Quality Control Testing	SEC-HPLC and Tris-Bis PAGE SEC-HPLC The purity of Human EGF is greater than 95% as determined by SEC-HPLC. Tris-Bis PAGE Human EGF on Tris-Bis PAGE under reduced condition. The purity is greater than 95%.
Recommend Usage	Biological Activity SPR SDS-PAGE The optimal working dilution should be determined by the end user.
Storage Buffer	Lyophilized from sterile distilled Water is > 100 ug/mL
Storage Instruction	Store at 2°C to 8°C for 1 week. For long term storage, aliquot and store at -20°C to -80°C. Aliquot to avoid repeated freezing and thawing.
Note	Result of bioactivity analysis

Applications

- Functional Study
- SDS-PAGE
- Surface Plasmon Resonance

  Human EGFR, His Tag captured on CM5 Chip via anti-his antibody can bind Human EGF, hFc Tag with an affinity constant of 0.16 nM as determined in SPR assay (Biacore T200).

Gene Info — EGF

Entrez GeneID	1950
Protein Accession#	P01133-1
Gene Name	EGF

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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
- 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

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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

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- 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

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- 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

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- Viremia
- Werner syndrome

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