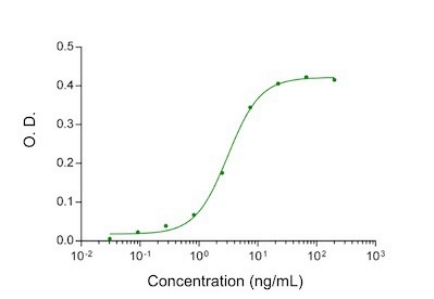
Bioactive

IGF1 (Human) Recombinant Protein

Catalog # P7326 Size 10 ug

Applications



Result of activity analysis

Result of activity analysis

Specification

Product Description	Human IGF1 (P05019, 49 a.a. - 118 a.a) partial recombinant protein expressed in *Escherichia coli*.
Sequence	GPETLCGAELVDALQFVCGDRGFYFNKPTGYGSSSRRAPQTGIVDECCFRSCDLRRLEMYCAPL KPAKSA
Host	Escherichia coli
Theoretical MW (kDa)	7.7
Form	Lyophilized
Preparation Method	*Escherichia coli* expression system
Purity	> 95% as analyzed by SDS-PAGE. > 95% as analyzed by HPLC.
Endotoxin Level	< 0.2 EU/ug of protein by gel clotting method
Activity	ED_{50} < 5.0 ng/mL, measured by a cell proliferation assay using FDC-P1 cells, corresponding to a specific activity of > 2.0×10^5 units/mg.
Recommend Usage	Biological Activity SDS-PAGE The optimal working dilution should be determined by the end user.

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Storage Buffer	Lyophilized from PBS. Reconstitute the lyophilized powder in ddH_2O 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 activity analysis Result of activity analysis

Applications

- Functional Study
- SDS-PAGE

Gene Info — IGF1

Entrez GeneID	3479
Protein Accession#	P05019
Gene Name	IGF1
Gene Alias	IGFI
Gene Description	insulin-like growth factor 1 (somatomedin C)
Omim ID	147440 608747
Gene Ontology	Hyperlink
Gene Summary	The protein encoded by this gene is similar to insulin in function and structure and is a member of a family of proteins involved in mediating growth and development. The encoded protein is proce ssed from a precursor, bound by a specific receptor, and secreted. Defects in this gene are a cau se of insulin-like growth factor I deficiency. Several transcript variants encoding different isoforms have been found for this gene
Other Designations	insulin-like growth factor 1|somatomedin C

Pathway

- Focal adhesion

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- Glioma
- Hypertrophic cardiomyopathy (HCM)
- Long-term depression
- Melanoma
- mTOR signaling pathway
- p53 signaling pathway
- Pathways in cancer
- Prostate cancer

Disease

- Abortion
- Adenocarcinoma
- Adenoma
- Albuminuria
- Alzheimer disease
- Anorexia Nervosa
- Arteriosclerosis
- Asperger Syndrome
- Atherosclerosis
- Autistic Disorder
- Barrett Esophagus
- Birth Weight
- Body Weight
- Bone Diseases
- Brain Neoplasms
- Breast cancer

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- Breast Diseases
- Breast Neoplasms
- Bronchopulmonary Dysplasia
- Bulimia
- Calcinosis
- Carcinoma
- Cardiovascular Diseases
- Cerebrovascular Accident
- Chorioamnionitis
- Colon cancer
- Colonic Neoplasms
- Colonic Polyps
- Colorectal Neoplasms
- Connective Tissue Diseases
- Coronary Artery Disease
- Diabetes Complications
- Diabetes Mellitus
- Diabetic Retinopathy
- Disease Progression
- Drug Toxicity
- Ductus Arteriosus
- Dwarfism
- Edema
- Esophageal Neoplasms
- Esophagitis
- Fetal Diseases

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- Fetal Growth Retardation
- Fetal Membranes
- Fractures
- Genetic Predisposition to Disease
- Glucose Intolerance
- Growth Disorders
- Hepatitis
- Hip Fractures
- Hypercholesterolemia
- Hyperplasia
- Hypertension
- Hypertrophy
- Infant
- Infection
- Inflammation
- Insulin Resistance
- Kidney Failure
- Laron Syndrome
- Liver Cirrhosis
- Liver Neoplasms
- Lung Neoplasms

- Lymphoma
- Malignant melanoma
- Melanoma
- Metabolic Syndrome X

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- Metaplasia
- Microsatellite Instability
- Multiple Myeloma
- Muscular Diseases
- Musculoskeletal Diseases
- Myocardial Infarction
- Myopia
- Neoplasm Invasiveness
- Neoplasm Metastasis
- Neoplasms
- Obesity
- Obstetric Labor
- Osteoarthritis
- Osteoporosis
- Ovarian cancer
- Ovarian Failure
- Ovarian Neoplasms
- Pain
- Pancreatic cancer
- Pancreatic Neoplasms
- Polycystic Ovary Syndrome
- Pre-Eclampsia
- Pregnancy Complications
- Premature Birth
- Prostate cancer
- Prostatic Hyperplasia

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- Prostatic Neoplasms
- Puberty
- Pulmonary Disease
- Rectal Neoplasms
- Retinopathy of Prematurity
- Scoliosis
- Shoulder Fractures
- Skin Diseases
- Social Perception
- Subarachnoid Hemorrhage
- Testicular Neoplasms
- Thrombophilia
- Thyroid Diseases
- Tobacco Use Disorder
- Urinary Bladder Neoplasms
- Weight Gain
- Werner syndrome
- Wrist Injuries

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