# IGF1 (A67T) (Human) Recombinant Protein

Catalog # P8181 Size 100 ug

## Specification

| | |
|---|---|
| **Product Description** | Human IGF1 (P05019, 48 a.a. - 118 a.a.) A67T mutant partial recombinant protein expressed in *Escherichia coli*. |
| **Sequence** | GPETLCGAELVDALQFVCGDRGFYFNKPTGYGSSSRRAPQTGIVDECCFRSCDLRRLEMYCAPL KPTKSA |
| **Host** | Escherichia coli |
| **Theoretical MW (kDa)** | 7.7 |
| **Form** | Lyophilized |
| **Preparation Method** | *Escherichia coli* expression system |
| **Purity** | > 95% by SDS-PAGE |
| **Recommend Usage** | Biological Activity<br>SDS-PAGE<br>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. |

## Applications

- SDS-PAGE

## Gene Info — IGF1

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|---|---|
| **Entrez GeneID** | 3479 |

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

## Disease

- Abortion
- Adenocarcinoma
- Adenoma

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- Albuminuria
- Alzheimer disease
- Anorexia Nervosa
- Arteriosclerosis
- Asperger Syndrome
- Atherosclerosis
- Autistic Disorder
- Barrett Esophagus
- Birth Weight
- Body Weight
- Bone Diseases
- Brain Neoplasms
- Breast cancer
- Breast Diseases
- Breast Neoplasms
- Bronchopulmonary Dysplasia
- Bulimia
- Calcinosis
- Carcinoma
- Cardiovascular Diseases
- Cerebrovascular Accident
- Chorioamnionitis
- Colon cancer
- Colonic Neoplasms
- Colonic Polyps
- Colorectal Neoplasms

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- 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
- Fetal Growth Retardation
- Fetal Membranes
- Fractures
- Genetic Predisposition to Disease
- Glucose Intolerance
- Growth Disorders
- Hepatitis
- Hip Fractures
- Hypercholesterolemia
- Hyperplasia
- Hypertension
- Hypertrophy
- Infant

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- Infection
- Inflammation
- Insulin Resistance
- Kidney Failure
- Laron Syndrome
- Liver Cirrhosis
- Liver Neoplasms
- Lung Neoplasms
- Lymphoma
- Malignant melanoma
- Melanoma
- Metabolic Syndrome X
- Metaplasia
- Microsatellite Instability
- Multiple Myeloma
- Muscular Diseases
- Musculoskeletal Diseases
- Myocardial Infarction
- Myopia
- Neoplasm Invasiveness
- Neoplasm Metastasis
- Neoplasms
- Obesity
- Obstetric Labor
- Osteoarthritis
- Osteoporosis

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- Ovarian cancer
- Ovarian Failure
- Ovarian Neoplasms
- Pain
- Pancreatic cancer
- Pancreatic Neoplasms
- Polycystic Ovary Syndrome
- Pre-Eclampsia
- Pregnancy Complications
- Premature Birth
- Prostate cancer
- Prostatic Hyperplasia
- Prostatic Neoplasms
- Puberty
- Pulmonary Disease
- Rectal Neoplasms
- Retinopathy of Prematurity
- Scoliosis
- Shoulder Fractures
- Skin Diseases
- Social Perception
- Subarachnoid Hemorrhage
- Testicular Neoplasms
- Thrombophilia
- Thyroid Diseases

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- Tobacco Use Disorder
- Urinary Bladder Neoplasms
- Weight Gain
- Werner syndrome
- Wrist Injuries

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