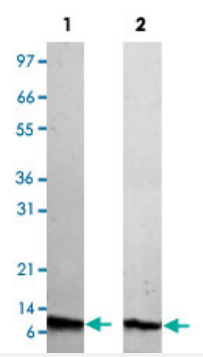
Bioactive

IGF1 (Human) Recombinant Protein

Catalog # P4399 Size 100 ug

Applications



Lane 1: non-reducing conditions
Lane 2: reducing conditions

Result of activity analysis

Result of activity analysis

FDC-P1 cells were cultured with 0 to 250 ng/mL human IGF1. Cell proliferation was measured after 48 hours and the linear portion of the curve was us used to calculate the ED50.

Specification

Product Description	Human IGF1 (P05019) 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
Endotoxin Level	< 0.1 EU/ug

Copyright © 2023 Abnova Corporation. All Rights Reserved.

Activity	The activity is determined by the dose-dependent proliferation of FDC-P1 cells. The expected ED_{50} f or this effect is 0.65-0.98 ng/mL.
Quality Control Testing	1 ug/lane in 4-20% Tris-Glycine gel Stained with Coomassie Blue Lane 1: non-reducing conditions Lane 2: reducing conditions
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.
Note	Result of activity analysis Result of activity analysis FDC-P1 cells were cultured with 0 to 250 ng/mL human IGF1. Cell proliferation was measured after 4 8 hours and the linear portion of the curve was us used to calculate the ED50.

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

Copyright © 2023 Abnova Corporation. All Rights Reserved.

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
- Albuminuria
- Alzheimer disease
- Anorexia Nervosa
- Arteriosclerosis
- Asperger Syndrome
- Atherosclerosis
- Autistic Disorder
- Barrett Esophagus
- Birth Weight

Copyright © 2023 Abnova Corporation. All Rights Reserved.

- 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
- Connective Tissue Diseases
- Coronary Artery Disease
- Diabetes Complications
- Diabetes Mellitus
- Diabetic Retinopathy
- Disease Progression
- Drug Toxicity
- Ductus Arteriosus
- Dwarfism

Copyright © 2023 Abnova Corporation. All Rights Reserved.

- 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
- Infection
- Inflammation
- Insulin Resistance
- Kidney Failure
- Laron Syndrome
- Liver Cirrhosis
- Liver Neoplasms
- Lung Neoplasms
- Lymphoma

Copyright © 2023 Abnova Corporation. All Rights Reserved.

- 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
- Ovarian cancer
- Ovarian Failure
- Ovarian Neoplasms
- Pain
- Pancreatic cancer
- Pancreatic Neoplasms
- Polycystic Ovary Syndrome
- Pre-Eclampsia
- Pregnancy Complications

Copyright © 2023 Abnova Corporation. All Rights Reserved.

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

Copyright © 2023 Abnova Corporation. All Rights Reserved.