Bioactive

IGFBP3 (Human) Recombinant Protein

Catalog # P8192 Size 25 ug

Specification

Product Description	Human IGFBP3 (P17936, 28 a.a. - 291 a.a.) partial recombinant protein expressed in *Escherichia coli*.
Sequence	GASSAGLGPVVRCEPCDARALAQCAPPPAVCAELVREPGCGCCLTCALSEGQPCGIYTERCGS GLRCQPSPDEARPLQALLDGRGLCVNASAVSRLRAYLLPAPPAPGNASESEEDRSAGSVESPS VSSTHRVSDPKFHPLHSKIIIIKKGHAKDSQRYKVDYESQSTDTQNFSSESKRETEYGPCRREMED TLNHLKFLNVLSPRGVHIPNCDKKGFYKKKQCRPSKGRKRGFCWCVDKYGQPLPGYTTKGKEDV HCYSMQSK
Host	Escherichia coli
Theoretical MW (kDa)	28.8
Form	Lyophilized
Preparation Method	*Escherichia coli* expression system
Purity	> 97% by SDS-PAGE
Activity	The ED_{50} is < 200ng/mL, calculated by by the ability to inhibit IGF-II induced proliferation of MCF-7 in the presence of 15ng/mL of Human IGF-II, corresponding to a specific activity of 5.0×10^3 IU/mg.
Recommend Usage	Biological Activity SDS-PAGE The optimal working dilution should be determined by the end user.
Storage Buffer	In sterile 20mM AcOH (acetic Acid) > 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

- Functional Study

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- SDS-PAGE

Gene Info — IGFBP3

Entrez GeneID	3486
Protein Accession#	P17936
Gene Name	IGFBP3
Gene Alias	BP-53, IBP3
Gene Description	insulin-like growth factor binding protein 3
Omim ID	146732
Gene Ontology	Hyperlink
Gene Summary	This gene is a member of the insulin-like growth factor binding protein (IGFBP) family and encode s a protein with an IGFBP domain and a thyroglobulin type-I domain. The protein forms a ternary c omplex with insulin-like growth factor acid-labile subunit (IGFALS) and either insulin-like growth fa ctor (IGF) I or II. In this form, it circulates in the plasma, prolonging the half-life of IGFs and altering t heir interaction with cell surface receptors. Alternate transcriptional splice variants, encoding differ ent isoforms, have been characterized. [provided by RefSeq
Other Designations	IGF-binding protein 3|acid stable subunit of the 140 K IGF complex|binding protein 29|binding prot ein 53|growth hormone-dependent binding protein

Pathway

- p53 signaling pathway

Disease

- Abortion
- Adenocarcinoma
- Adenoma
- Alzheimer disease
- Anorexia Nervosa

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- Anoxia
- Atherosclerosis
- Barrett Esophagus
- Brain Ischemia
- Brain Neoplasms
- Breast cancer
- Breast Diseases
- Breast Neoplasms
- Bulimia
- Calcinosis
- Carcinoma
- Cardiovascular Diseases
- Clubfoot
- Colon cancer
- Colonic Neoplasms
- Colonic Polyps
- Colorectal Neoplasms
- Connective Tissue Diseases
- Coronary Artery Disease
- Diabetes Complications
- Diabetes Mellitus
- Diabetic Nephropathies
- Disease Progression
- Dwarfism
- Edema
- Esophageal Neoplasms

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- Esophagitis
- Femur Head Necrosis
- Fetal Diseases
- Fetal Growth Retardation
- Genetic Predisposition to Disease
- Growth Disorders
- Hyperplasia
- Infection
- Inflammation
- Kidney Failure
- Kidney Neoplasms
- Laron Syndrome
- Liver Neoplasms
- Lung Neoplasms
- Lymphoma
- Metabolic Syndrome X
- Metaplasia
- Microsatellite Instability
- Multiple Myeloma
- Muscular Diseases
- Musculoskeletal Diseases
- Narcolepsy
- Neoplasm Invasiveness
- Neoplasms
- Obesity
- Osteonecrosis

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- Osteoporosis
- Ovarian cancer
- Ovarian Failure
- Ovarian Neoplasms
- Pain
- Pancreatic Neoplasms
- Polycystic Ovary Syndrome
- Pregnancy Complications
- Premature Birth
- Prostate cancer
- Prostatic Hyperplasia
- Prostatic Neoplasms
- Puberty
- Pulmonary Disease
- Rectal Neoplasms
- Schizophrenia
- Skin Diseases
- Stomach Neoplasms
- Stroke
- Testicular Neoplasms
- Thrombophilia
- Thyroid Diseases
- Tobacco Use Disorder
- Urinary Bladder Neoplasms
- Werner syndrome

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