Bioactive

IGFBP3 (Human) Recombinant Protein

Catalog # P7236 Size 25 ug

Specification

Product Description	Human IGFBP3 (P17396, 28 a.a. - 291 a.a.) partial recombinant protein expressed in *Escherichia coli*.
Immunogen	GASSAGLGPVVRCEPCDARALAQCAPPPAVCAELVREPGCGCCLTCALSEGQPCGIYTERCGS GLRCQPSPDEARPLQALLDGRGLCVNASAVSRLRAYLLPAPPAPGNASESEEDRSAGSVESPS VSSTHRVSDPKFHPLHSKIIIIKKGHAKDSQRYKVDYESQSTDTQNFSSESKRETEYGPCRREMED TLNHLKFLNVLSPRGVHIPNCDKKGFYKKKQCRPSKGRKRGFCWCVDKYGQPLPGYTTKGKEDV HCYSMQSK
Sequence	GASSAGLGPVVRCEPCDARALAQCAPPPAVCAELVREPGCGCCLTCALSEGQPCGIYTERCGS GLRCQPSPDEARPLQALLDGRGLCVNASAVSRLRAYLLPAPPAPGNASESEEDRSAGSVESPS VSSTHRVSDPKFHPLHSKIIIIKKGHAKDSQRYKVDYESQSTDTQNFSSESKRETEYGPCRREMED TLNHLKFLNVLSPRGVHIPNCDKKGFYKKKQCRPSKGRKRGFCWCVDKYGQPLPGYTTKGKEDV HCYSMQSK
Host	Escherichia coli
Theoretical MW (kDa)	28.8
Form	Lyophilized
Preparation Method	*Escherichia coli* expression system
Purity	> 98% by SDS-PAGE
Endotoxin Level	< 1 EU per 1 ug of protein (determined by LAL method)
Activity	The ED_{50} as determined by inhibiting IGF-II induced proliferation of serum free human MCF-7 cells is < 200.0 ng/ml, corresponding to a specific activity of > 5.0×10^3 IU/mg in the presence of 15.0 ng/ml of rHuIGF-II.
Storage Buffer	Lyophilized from sterile distilled Water up to 0.1 - 1.0 mg/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.

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Applications

- Functional Study
- SDS-PAGE

Gene Info — IGFBP3

Entrez GeneID	3486
Protein Accession#	P17396
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

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- Adenoma
- Alzheimer disease
- Anorexia Nervosa
- 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

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- Dwarfism
- Edema
- Esophageal Neoplasms
- 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

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- Neoplasms
- Obesity
- Osteonecrosis
- 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

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- Urinary Bladder Neoplasms
- Werner syndrome

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