

Recombinant Human IGFBP3

Cat. No. IGFBP3-28257TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human IGFBP3 protein (amino acids 28-291); a28.8 kDa protein consisting of 264 amino acid residues.
Species	Human
Source	E.coli
ProteinLength	28-291 a.a.
Description	This gene is a member of the insulin-like growth factor binding protein (IGFBP) family and encodes a protein with an IGFBP domain and a thyroglobulin type-I domain. The protein forms a ternary complex with insulin-like growth factor acid-labile subunit (IGFALS) and either insulin-like growth factor (IGF) I or II. In this form, it circulates in the plasma, prolonging the half-life of IGFs and altering their interaction with cell surface receptors. Alternate transcriptional splice variants, encoding different isoforms, have been characterized.
Tissue specificity	Expressed by most tissues. Present in plasma.
Form	Lyophilised:Reconstitute with water to a concentration of 0.1-1.0mg/ml.
Purity	>95% by SDS-PAGE
Storage buffer	Preservative: None Constituents: 20mM Sodium citrate, pH 4 Endotoxin level is less than 0.1 ng per µg (1EU/µg).

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

Storage	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
Sequences of amino acids	GASSGGLGPV VRCEPCDARA LAQCAPPPAV CAELVREPGC GCCLTCALSE GQPCGIYTER CGSGLRCQPS PDEARPLQAL LDGRGLCVNA SAVSRLRAYL LPAPPAPGNA SESEEDRSAG EVESPSVSST HRVSDPKFHP LHSKIIIIKK GHAKDSQRYK VDYESQSTDT QNFSSESKRE TEYGPCRREM EDTLNHLKFL NVLSPRGVHI PNCDKKGFKYK KKQCRPSKGR KRGFCWCVDK YGQPLPGYTT KGGKEDVHCYS MQSK
Sequence Similarities	Contains 1 IGFBP N-terminal domain.Contains 1 thyroglobulin type-1 domain.
GENE INFORMATION	
Gene Name	IGFBP3 insulin-like growth factor binding protein 3 [Homo sapiens]
Official Symbol	IGFBP3
Synonyms	IGFBP3; insulin-like growth factor binding protein 3; insulin-like growth factor-binding protein 3; acid stable subunit of the 140 K IGF complex; binding protein 29; binding protein 53; BP 53; growth hormone dependent binding protein; IBP3; IGF binding pr
Gene ID	3486
mRNA Refseq	NM_000598
Protein Refseq	NP_000589
MIM	146732
Uniprot ID	P17936

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Chromosome Location	7p13-p12
Pathway	Diabetes pathways, organism-specific biosystem; Direct p53 effectors, organism-specific biosystem; Myometrial Relaxation and Contraction Pathways, organism-specific biosystem; Regulation of Insulin-like Growth Factor (IGF) Activity by Insulin-like Growth Factor Binding Proteins (IGFBPs), organism-specific biosystem; Transcriptional misregulation in cancers, organism-specific biosystem;
Function	insulin-like growth factor I binding; insulin-like growth factor binding; metal ion binding; protein binding; protein tyrosine phosphatase activator activity;

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