

Active Recombinant Human IGFBP1 protein

Cat. No. IGFBP1-29544TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human IGFBP1 was expressed in E. coli.
Species	Human
Source	E.coli
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 binds both insulin-like growth factors (IGFs) I and II and circulates in the plasma. Binding of this protein prolongs the half-life of the IGFs and alters their interaction with cell surface receptors.
Bio-activity	The ED50, as determined by its ability to inhibit IGF-I induced proliferation of MCF-7, is < 0.5 µg/ml in the presence of 6 ng/ml of human IGF-I.
AA Sequence	MAPWQCAPCS AEKLALCPPV SASCSEVTRS AGCGCCPMCA LPLGAACGVA TARCARGLSC RALPGEQQPL HALTRGQGAC VQESDASAPH AAEAGSPESP ESTEITEEEL LDNFHLMAPS EEDHSILWDA ISTYDGSKAL HVTNIKKWKE PCRIELYRVV ESLAKAQETS GEEISKFYLP NCNKNGFYHS RQCETSMDGE AGLCWCVPYW NGKRIPGSPE IRGDPNCQIY FNVQN
Endotoxin	< 0.100 Eu/g
Applications	Western blot; SDS-PAGE; Functional Studies

 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 centigrade. The lyophilized protein is stable for a few weeks at room temperature. Store at -20 centigrade long term.
Reconstitution	Reconstitute to 1mg/ml with sterile water.
GENE INFORMATION	
Gene Name	IGFBP1 insulin-like growth factor binding protein 1 [Homo sapiens]
Official Symbol	IGFBP1
Synonyms	IGFBP1; insulin-like growth factor binding protein 1; IBP1; insulin-like growth factor-binding protein 1; AFBP; alpha pregnancy associated endometrial globulin; amniotic fluid binding protein; binding protein 25; binding protein 26; binding protein 28; growth hormone independent binding protein; hIGFBP 1; IGF binding protein 1; IGF BP25; placental protein 12; PP12; IBP-1; IGFBP-1; binding protein-25; binding protein-26; binding protein-28; IGF-binding protein 1; growth hormone independent-binding protein; alpha-pregnancy-associated endometrial globulin; IGF-BP25; hIGFBP-1;
Gene ID	3484
mRNA Refseq	NM_000596
Protein Refseq	NP_000587
MIM	146730
UniProt ID	P08833
Chromosome Location	7p13-p12

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Pathway

Activation of Genes by ATF4, organism-specific biosystem; Diabetes pathways, organism-specific biosystem; Disease, organism-specific biosystem; FOXA2 and FOXA3 transcription factor networks, organism-specific biosystem; HIF-1-alpha transcription factor network, organism-specific biosystem; Myometrial Relaxation and Contraction Pathways, organism-specific biosystem; PERK regulated gene expression, organism-specific biosystem;

Function

insulin-like growth factor binding;

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