

# Recombinant Human Insulin-like Growth Factor Binding Protein 4

**Cat. No.** IGFBP4-614H    **Lot. No.** (See product label)

## SPECIFICATION

<b>Product Overview</b>	Recombinant humanIGFBP4 protein was expressed in E. coli. IGFBP4 inhibits the activity ofIGF-I and IGF-II by binding in a manner that results in the formation ofcomplexes with reduced ability to signal through cell surface IGF receptors.
<b>Species</b>	Human
<b>Source</b>	E.coli
<b>Description</b>	This gene is amember of the insulin-like growth factor binding protein (IGFBP) family andencodes a protein with an IGFBP domain and a thyroglobulin type-I domain. Theprotein binds both insulin-like growth factors (IGFs) I and II and circulatesin the plasma in both glycosylated and non-glycosylated forms. Binding ofthis protein prolongs the half-life of the IGFs and alters their interactionwith cell surface receptors.
<b>Form</b>	Lyophilized from asterile solution without additives.
<b>Purity</b>	>98.0% asdetermined by RP-HPLC and SDS-PAGE analyses.
<b>Molecular Weight</b>	26.1 kDa
<b>Endotoxin Level</b>	<0.1 ng/μg ofprotein.
<b>Reconstitution</b>	Centrifuge vialprior to opening. Reconstituted in water to a concentration of 0.1-1.0 mg/ml.This solution can be diluted in water or other buffer solutions or stored at-20°C.

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

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)     Fax: 1-631-938-8127

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

<b>Storage</b>	The lyophilized protein is stable for a few weeks at room temperature, but best stored at -20°C. Reconstituted human IGFBP4 should be stored in working aliquots at -20°C. Avoid repeated freeze-thaw cycles.
<b>Official Symbol</b>	IGFBP4
<b>Pathways</b>	Diabetes pathways; Myometrial Relaxation and Contraction Pathways; Regulation of Insulin-like Growth Factor (IGF) Activity by Insulin-like Growth Factor Binding Proteins (IGFBPs); Wnt signaling network

## GENE INFORMATION

<b>Gene Name</b>	IGFBP4 insulin-like growth factor binding protein 4 [ Homo sapiens ]
<b>Synonyms</b>	IGFBP4; insulin-like growth factor binding protein 4; BP-4; IBP4; IGFBP-4; HT29-IGFBP; insulin-like growth factor-binding protein 4; IBP-4; OTTHUMP00000164451; IGF-binding protein 4; Insulin-like growth factor-binding protein 4
<b>Gene ID</b>	3487
<b>mRNA Refseq</b>	NM_001552
<b>Protein Refseq</b>	NP_001543
<b>MIM</b>	146733
<b>UniProt ID</b>	P22692
<b>Chromosome Location</b>	17q12-q21.1

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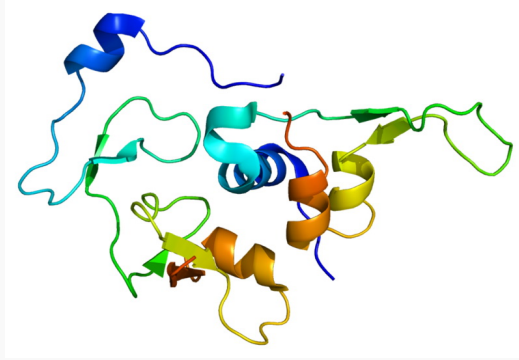
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**Function**

insulin-like growthfactor binding

**PDB rendering  
basedon 1wqj.**



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