Recombinant Human Insulin-like Growth Factor Binding Protein 4

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

SPECIFICATION

Product Overview	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.
Species	Human
Source	E.coli
Description	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.
Form	Lyophilized from asterile solution without additives.
Purity	>98.0% asdetermined by RP-HPLC and SDS-PAGE analyses.
Molecular Weight	26.1 kDa
Endotoxin Level	<0.1 ng/μg ofprotein.
Reconstitution	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.

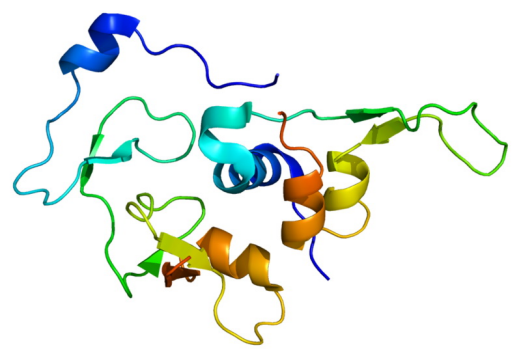
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Storage	The lyophilizedprotein is stable for a few weeks at room temperature, but best stored at -20°C.Reconstituted human IGFBP4 should be stored in working aliquots at -20°C. Avoidrepeated freeze-thaw cycles.
OfficialSymbol	IGFBP4
Pathways	Diabetes pathways; MyometrialRelaxation and Contraction Pathways; Regulation of Insulin-like Growth Factor(IGF) Activity by Insulin-like Growth Factor Binding Proteins (IGFBPs); Wntsignaling network

GENE INFORMATION

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

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Function	insulin-like growthfactor binding
PDB rendering basedon 1wqj.	

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