

Recombinant Human Insulin-like Growth Factor Binding Protein 4

Cat. No. IGFBP4-2717H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human Insulin-like Growth Factor Binding Protein 4 is expressed in yeast.
Species	Human
Source	Yeast
Description	Insulin-like growth factor-binding proteins (IGFBPs) control bioavailability, activity, and distribution of insulin-like growth factor (IGF) through high-affinity IGFBP/IGF complexes. Six high-affinity IGF-binding proteins (IGFBP-1 to -6) have been identified, and IGFBP4, the smallest IGFBP expressed by a wide range of cell types, exists in both non-glycosylated and N-glycosylated forms in all biological fluids. Structurally consisting of an IGFBP domain and a thyroglobulin type-I domain, IGFBP4 binds IGF-I and IGF-II with similar affinities as a transport protein and modulates their biological effects. Increasing evidences indicate that IGFBP4 inhibits IGF-induced cellular growth both in vitro and in vivo. As an important member of the IGF system, IGFBP4 is involved in a wide range of biological processes including reproductive physiology, bone formation, renal pathophysiology and carcinomas.
Molecular Weight	24,000 daltons.
Purity	The material has been judged to be >90% pure, as determined by SDS gel electrophoresis.

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Biological Activity	Binding activity of human IGF-BP 4 is determined by the inhibition activity of both IGF-I and IGF-II.
Stability	Lyophilized human IGF-BP 4 is stable at 4 °C for at least one year.
Formulation	Lyophilized powder.
Storage	Upon receipt, the material should be stored at 4 °C. Reconstitution of lyophilized IGF-BP 4 is best in water or buffer near neutral pH. After reconstitution, storage in aliquots at minus 80 °C is recommended.

GENE INFORMATION

Gene Name	IGFBP4 insulin-like growth factor binding protein 4 [Homo sapiens]
Synonyms	insulin-like growth factor binding protein 4; BP-4; IBP4; IGFBP-4; HT29-IGFBP; IGFBP4; insulin-like growth factor binding protein 4; IGF-binding protein 4; insulin-like growth factor-binding protein 4; IBP-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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Pathway	Diabetes pathways
Function	insulin-like growth factor binding

PDB rendering based
on 1wqj.

