

Recombinant Human IGFBP4 protein

Cat. No. IGFBP4-5051H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human IGFBP4 protein was expressed in insect cell.
Species	Human
Source	Insect Cells
ProteinLength	237
Description	IGFBP-4 (insulin-like growth factor binding protein 4) is member of the IGFBP family of structurally similar secreted glycoproteins that maintain IGF-I and IGF-II in the circulation and direct them to their target tissues. IGF-binding proteins prolong the half-life of the IGFs and have been shown to either inhibit or stimulate the growth promoting effects of the IGFs on cell culture. They alter the interaction of IGFs with their cell surface receptors. IGFBP-4 consistently inhibits several cancer cells in vivo and in vitro.
Form	Lyophilized from a 0.2µm filtered concentrated solution in 20mM Tris-HCl, pH 8.0, 150mM NaCl.
Bio-activity	Fully biologically active when compared to standard. The ED50 as determined by its ability to inhibit IGF-II induced proliferation of MCF-7 cells is less than 0.1 µg/ml, corresponding to a specific activity of $> 1.0 \times 10^4$ IU/mg in the presence of 14 ng/ml of rHuIGF-II.
Molecular Mass	The apparent molecular weight is about 30 kDa in SDS-PAGE under reducing

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	conditions, containing 237 amino acids.
AA Sequence	DEAIHCPPCSEEKLARCRPPVGCEELVREPGCGCCATCALGLGMPCGVYTPRCGS GLRCYPPRGVEKPLHTLMHGQGVCMELAEIEAIQESLQPSDKDEGDHPNNSFSPCS AHDRRCLQKHFAKIRDRSTSGGKMKVNGAPREDARVPVQGSCQSELHRALERLAA SQSRTHEDLYIIPNCDRNGNFHPKQCHPALDGQRGKCWCVDKRTGVKLPGGLEP KGELDCHQLADSFRE
Endotoxin	Less than 0.1 EU/μg of rHuIGF-BP4, Insect Cell as determined by LAL method.
Purity	>97% by SDS-PAGE and HPLC analysis.
Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 12 months from date of receipt, -20 to -70 centigrade as supplied. 1 month, 2 to 8 centigrade under sterile conditions after reconstitution. 3 months, -20 to -70 centigrade under sterile conditions after reconstitution.
Reconstitution	We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute in sterile distilled water or aqueous buffer containing 0.1 % BSA to a concentration of 0.1-1.0 mg/mL. Stock solutions should be apportioned into working aliquots and stored at ≤-20 centigrade. Further dilutions should be made in appropriate buffered solutions.

GENE INFORMATION

Gene Name	IGFBP4
Official Symbol	IGFBP4
Synonyms	IGFBP4; insulin-like growth factor binding protein 4; insulin like growth factor binding protein 4; insulin-like growth factor-binding protein 4; BP 4; HT29 IGFBP; IBP4; IGF

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binding protein 4; IGFBP 4; IBP-4; IGF-binding protein 4; BP-4; IGFBP-4; HT29-IGFBP;

Gene ID

3487

mRNA Refseq

NM_001552

Protein Refseq

NP_001543

MIM

146733

UniProt ID

P22692

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