

## Recombinant Human IGFBP4 protein

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

### SPECIFICATION

<b>Product Overview</b>	Recombinant Human IGFBP4 protein was expressed in insect cell.
<b>Species</b>	Human
<b>Source</b>	Insect Cells
<b>ProteinLength</b>	237
<b>Description</b>	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.
<b>Form</b>	Lyophilized from a 0.2µm filtered concentrated solution in 20mM Tris-HCl, pH 8.0, 150mM NaCl.
<b>Bio-activity</b>	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 × 10 <sup>4</sup> IU/mg in the presence of 14 ng/ml of rHuIGF-II.
<b>Molecular Mass</b>	The apparent molecular weight is about 30 kDa in SDS-PAGE under reducing

 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

conditions, containing 237 amino acids.

**AA Sequence**

DEAIHCPPCSEEKLARCRPPVGCEELVREPGCGCCATCALGLGMPCGVYTPRCGS  
GLRCYPPRGVEKPLHTLMHGQGVCMEIAEIAIQESLQPSDKDEGDHPNNSFSPCS  
AHDRRCLQKHFAKIRDRSTSGGKMKVNGAPREDARVPVQGSCQSELHRALERLAA  
SQSRTHEDLYIIPNCDNRNGNFHPKQCHPALDGQRGKCWCVDRKTGVKLPGGLEP  
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

 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



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

 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