

# Recombinant Human IGFBP-6 Protein

Catalog No.: RP00145 **Recombinant**

## Sequence Information

Species	Gene ID	Swiss Prot
Human	3489	P24592

### Tags

C-His

### Synonyms

IGFBP6;IBP6

## Product Information

Source	Purification
HEK293 cells	> 95% by SDS-PAGE.

### Endotoxin

&lt; 0.1 EU/μg of the protein by LAL method.

### Formulation

Lyophilized from a 0.22 μm filtered solution of PBS, pH 7.4. Contact us for customized product form or formulation.

### Reconstitution

Centrifuge the vial before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stabilizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

## Background

The superfamily of insulin-like growth factor (IGF) binding proteins include the six high-affinity IGF binding proteins (IGFBP) and at least four additional low-affinity binding proteins referred to as IGFBP related proteins (IGFBP-rP). All IGFBP superfamily members are cysteine-rich proteins with conserved cysteine residues, they can bind IGF-I and IGF-II with the equal affinity. Insulin-like growth factor (IGF) binding proteins (IGFBPs) have been shown to either inhibit or enhance the action of IGF, or act in an IGF-independent manner in the prostate. IGF-binding protein-4 (IGFBP-4) inhibits IGF-I action in vitro and is the most abundant IGFBP in the rodent arterial wall. IGFBP6 is directly downregulated by the beta-catenin/TCF complex in desmoid tumors, and imply a role for the IGF axis in the proliferation of desmoid tumors. There is mounting evidence that the structure of the IGFBP proteins plays a key role in the regulation of IGF bioavailability, by modulating its molecular size, capillary membrane permeability, target tissue specificity, cell membrane adherence and IGF affinity.

## Basic Information

### Description

Recombinant Human IGFBP-6 Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Met1-Gly240) of human IGFBP6/IBP-6 (Accession #NP\_002169.1) fused with a 6xHis tag at the C-terminus.

### Bio-Activity

Measured by its binding ability in a functional ELISA. Immobilized recombinant human IGFBP6 at 1 μg/mL (100 μL/well) can bind recombinant human IGF1 with a linear range of 30-250 ng/mL.

### Storage

Store the lyophilized protein at -20°C to -80 °C for long term.

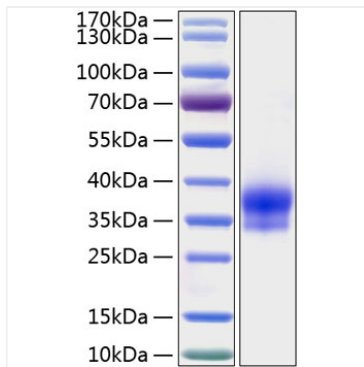
After reconstitution, the protein solution is stable at -20 °C for 3 months, at 2-8 °C for up to 1 week.

Avoid repeated freeze/thaw cycles.

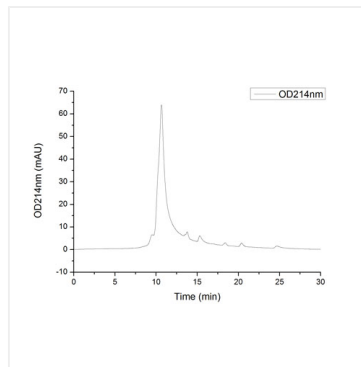
## Contact

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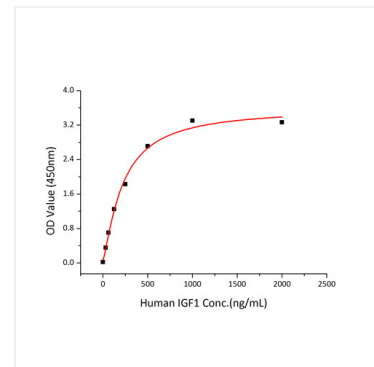
## Validation Data



Recombinant Human IGFBP-6 Protein was determined by SDS-PAGE with Coomassie Blue, showing a band at 36 kDa.



The purity of Human IGFBP6/IBP-6 Protein (Cat.RP00145) was greater than 95% as determined by SEC-HPLC.



Immobilized recombinant human IGFBP6 at 1  $\mu\text{g/mL}$  (100  $\mu\text{L/well}$ ) can bind recombinant human IGF1 with a linear range of 30-250 ng/mL.