

# Recombinant Human IGFBP-1 Protein

Catalog No.: RP00237 **Recombinant**

## Sequence Information

**Species** Human **Gene ID** 3484 **Swiss Prot** P08833

### Tags

C-His

### Synonyms

AFBP; IBP1; IGF-BP25; PP12;  
hIGFBP-1;IGFBP1;IBP1;IGF-  
BP25;PP12;hIGFBP-1

## 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, which are clustered in the amino- and carboxy-terminal thirds of the molecule. IGFBPs modulate the biological activities of IGF proteins. Some IGFBPs may also have intrinsic bioactivity that is independent of their ability to bind IGF proteins. Post-transitional modifications of IGFBP, including glycosylation, phosphorylation and proteolysis, have been shown to modify the affinities of the binding proteins to IGF.

## Basic Information

### Description

Recombinant Human IGFBP-1 Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Ala26-Asn259) of human IGFBP-1 (Accession #NP\_000587.1) fused with a 6xHis tag at the C-terminus.

### Bio-Activity

Measured by its binding ability in a functional ELISA. Immobilized Recombinant Human IGFBP-1 at 5 µg/mL (100 µL/well) can bind Recombinant Human IGF1 with a linear range of 44-176 ng/mL.

### Shipping

The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.

### Storage

Store at -20°C. Store the lyophilized protein at -20°C to -80 °C up to 1 year from the date of receipt. 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.

### Operational Notes

For your safety and health, please wear a lab coat and disposable gloves for handling.

## Product Information

### Source

HEK293 cells

### Purification

≥ 95 % as determined by SDS-PAGE.

### Calculated MW

26.11 kDa

### Observed MW

20-30 kDa

### Endotoxin

< 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.

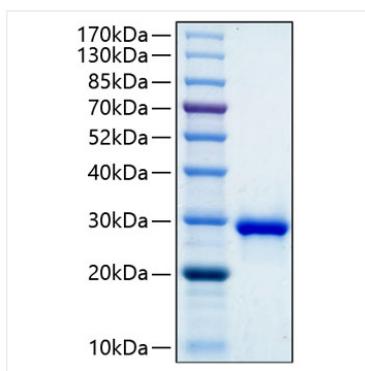
### Reconstitution

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.

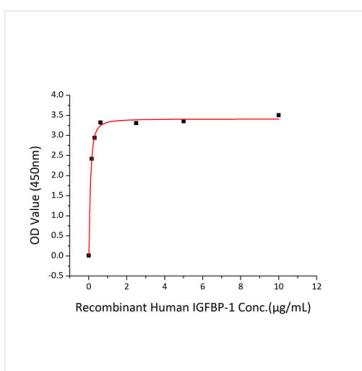
## Contact

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## Validation Data



Recombinant Human IGFBP-1 Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.



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