

# Human IGFBP-7 Protein, His Tag

Catalog # IG7-H5240



BIOSYSTEMS  
**Acro**

Surprise Inside!

## Synonym

IBP7, IGFBP7

## Source

Human IGFBP-7, His Tag (IG7-H5240) is expressed from human 293 cells (HEK293). It contains AA Asp 30 - Leu 282 (Accession # [NP\\_001544](#)).  
Predicted N-terminus: His

## Molecular Characterization

Poly-his

IGFBP-7(Asp 30 - Leu 282)  
NP\_001544

### [Other Tags and Version](#) [Biotin & Other Labeled Version](#)

This protein carries a polyhistidine tag at the N-terminus.  
The protein has a calculated MW of 27.0 kDa. The protein migrates as 33-35 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.

## Endotoxin

Less than 1.0 EU per µg by the LAL method / rFC method.

## Purity

>95% as determined by SDS-PAGE.

## Formulation

Lyophilized from 0.22 µm filtered solution in PBS, pH7.4 with trehalose as protectant.  
Contact us for customized product form or formulation.

## Reconstitution

Please see Certificate of Analysis for specific instructions.

**For best performance, we strongly recommend you to follow the reconstitution protocol provided in the CoA.**

## Storage

For long term storage, the product should be stored at lyophilized state at -20°C or lower.

**Please avoid repeated freeze-thaw cycles.**

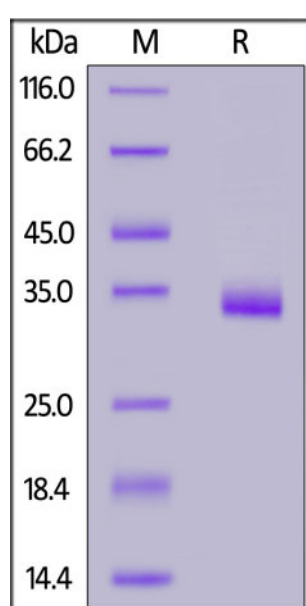
This product is stable after storage at:

- -20°C to -70°C for 12 months in lyophilized state;
- -70°C for 3 months under sterile conditions after reconstitution.

## ACRO Quality Management System

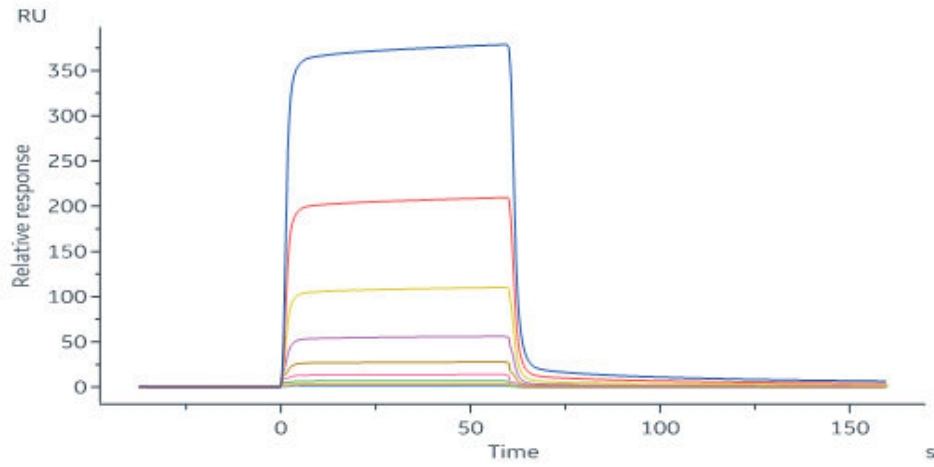
- [QMS\(ISO, GMP\)](#)
- [Quality Advantages](#)
- [Quality Control Process](#)

## SDS-PAGE



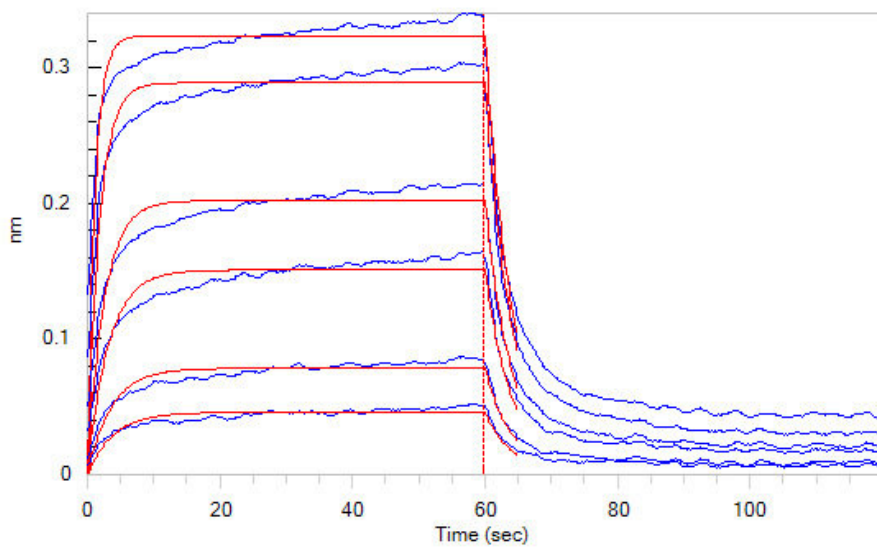
Human IGFBP-7, His Tag on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 95%.

## Bioactivity-SPR



Human IGFBP-7, His Tag (Cat. No. IG7-H5240) immobilized on CM5 Chip can bind Human C1q R1, His Tag (Cat. No. C11-H5228) with an affinity constant of  $16.7 \mu\text{M}$  as determined in a SPR assay (Biacore 8K) (Routinely tested).

## Bioactivity-BLI



Loaded Biotinylated Human C1q R1, His,Avitag (Cat. No. C11-H82E9) on SA Biosensor, can bind Human IGFBP-7, His Tag (Cat. No. IG7-H5240) with an affinity constant of  $0.93 \mu\text{M}$  as determined in BLI assay (ForteBio Octet Red96e) (Routinely tested).

## Background

Insulin-like growth factor-binding protein 7 (IGFBP7) is also known as IGFBP-rP1, MAC25 protein, PGI2-stimulating factor, prostacyclin-stimulating factor and tumor-derived adhesion factor, which contains one Ig-like C2-type (immunoglobulin-like) domain, one IGFBP N-terminal domain and one Kazal-like domain. The major function of IGFBP7 is the regulation of availability of insulin-like growth factors (IGFs) in tissue as well as in modulating IGF binding to its receptors. IGFBP7 binds to IGF with high affinity except for IGF-I and IGF-II. IGFBP7 also stimulates cell adhesion. Furthermore, IGFBP7 is implicated in some cancers.

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