



Synonym

IGFBP1,PP12,IBP1

Source

Human IGFBP-1 Protein, His Tag(IG1-H52H3) is expressed from human 293 cells (HEK293). It contains AA Ala 26 - Asn 259 (Accession # [P08833](#)).

Predicted N-terminus: Ala 26

Molecular Characterization

IGFBP-1(Ala 26 - Asn 259)
P08833 Poly-his

This protein carries a polyhistidine tag at the C-terminus.

The protein has a calculated MW of 27.2 kDa. The protein migrates as 32-35 kDa when calibrated against [Star Ribbon Pre-stained Protein Marker](#) under reducing (R) condition (SDS-PAGE) due to glycosylation.

Endotoxin

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

Purity

>90% as determined by SDS-PAGE.

>95% as determined by SEC-MALS.

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

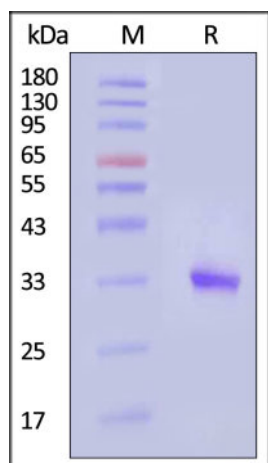
For long term storage, the product should be stored at lyophilized state at -20°C or lower.

Please avoid repeated freeze-thaw cycles.

This product is stable after storage at:

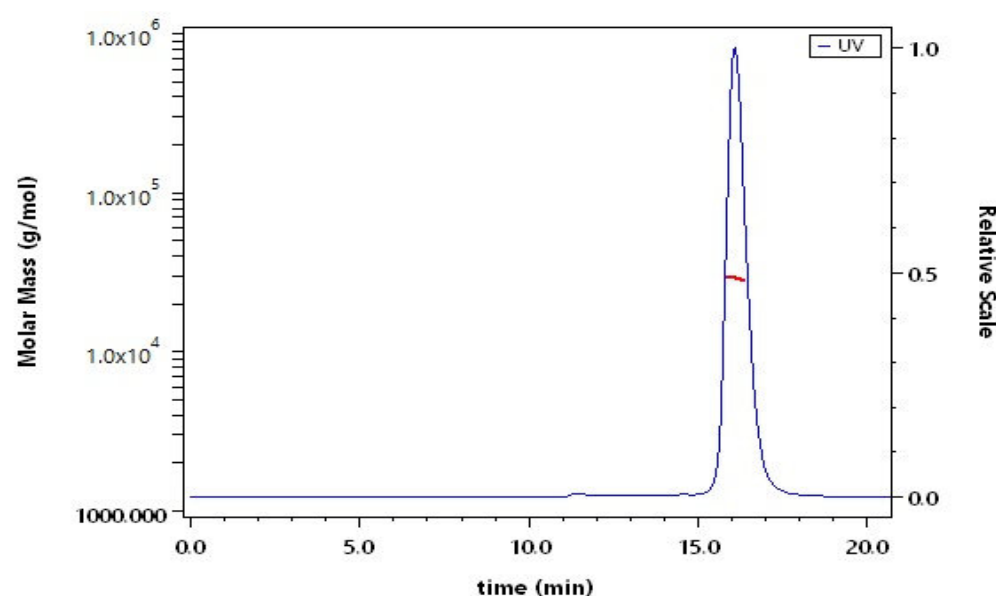
- -20°C to -70°C for 12 months in lyophilized state;
- -70°C for 3 months under sterile conditions after reconstitution.

SDS-PAGE



Human IGFBP-1 Protein, His Tag on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 90% (With [Star Ribbon Pre-stained Protein Marker](#)).

SEC-MALS



The purity of Human IGFBP-1 Protein, His Tag (Cat. No. IG1-H52H3) is more than 95% and the molecular weight of this protein is around 22-32 kDa verified by SEC-MALS.

[Report](#)

Bioactivity-ELISA

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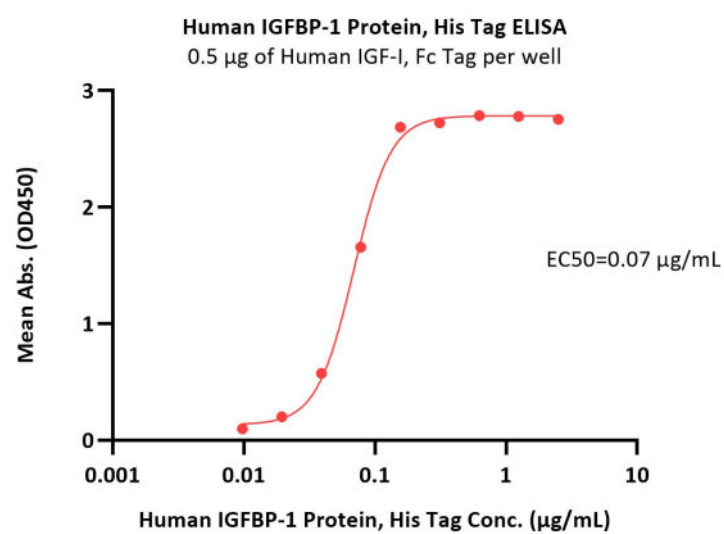


Human IGFBP-1 Protein, His Tag (MALS verified)

Catalog # IG1-H52H3



BIOSYSTEMS
Acro



Immobilized Human IGF-I, Fc Tag at 5 µg/mL (100 µL/well) can bind Human IGFBP-1 Protein, His Tag (Cat. No. IG1-H52H3) with a linear range of 0.01-0.156 µg/mL (QC tested).

Background

Insulin-like growth factor-binding protein 1 (IGFBP1) is also known as placental protein 12 (PP12), which contains one IGFBP N-terminal domain and one thyroglobulin type-1 domain. IGFBP1 can bind both insulin-like growth factors (IGFs) I and II and circulates in the plasma. Binding of IGFBP1 can prolong the half-life of the IGFs and alter their interaction with cell surface receptors. Furthermore, IGFBP1 can promote cell migration. Alternate transcriptional splice variants, encoding different isoforms, have been characterized.

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9/1/2025