



Synonym

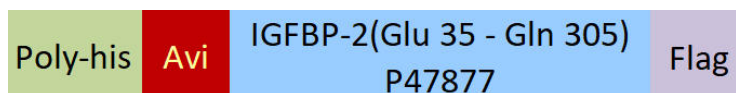
IBP2, IGF-BP53

Source

Biotinylated Mouse IGFBP-2 Protein, His,Avitag&Flag Tag(IG2-M82D3) is expressed from human 293 cells (HEK293). It contains AA Glu 35 - Gln 305 (Accession # [P47877](#)).

Predicted N-terminus: His

Molecular Characterization



This protein carries a polyhistidine tag and an Avi tag (Avitag™) at the N-terminus followed by a Flag tag at the C-terminus. The protein has a calculated MW of 34.2 kDa. The protein migrates as 40-43 kDa when calibrated against [Star Ribbon Pre-stained Protein Marker](#) under reducing (R) condition (SDS-PAGE) due to glycosylation.

Labeling

Biotinylation of this product is performed using Avitag™ technology. Briefly, the single lysine residue in the Avitag is enzymatically labeled with biotin.

Protein Ratio

Passed as determined by the HABA assay / binding ELISA.

Purity

>90% as determined by SDS-PAGE.

>90% 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

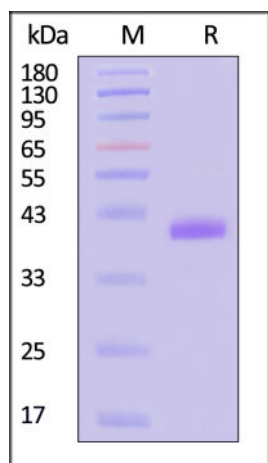
For long term storage, the product should be stored at lyophilized state at -20°C or lower.

Please avoid repeated freeze-thaw cycles.

This product is stable after storage at:

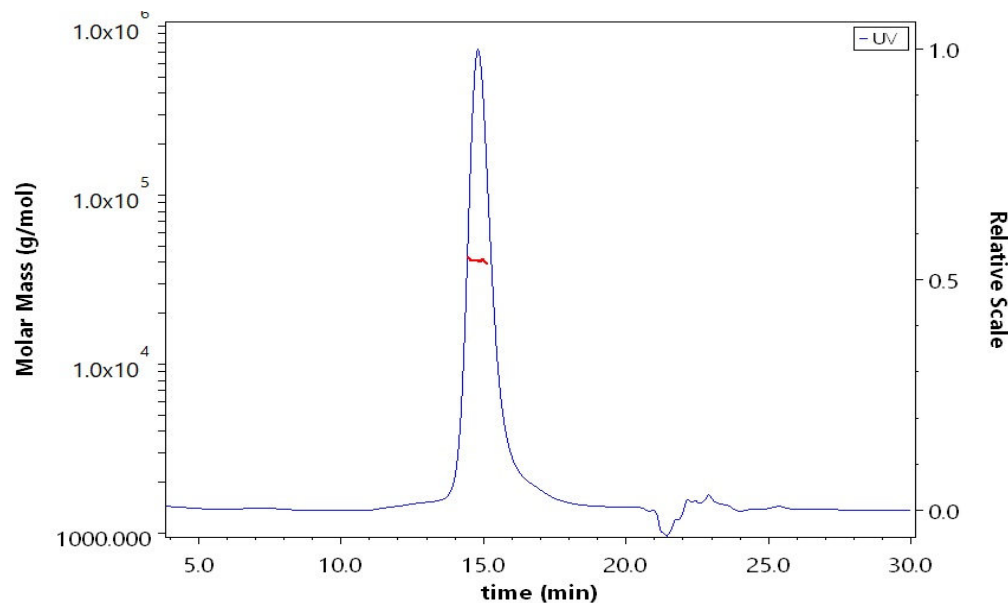
- -20°C to -70°C for 12 months in lyophilized state;
- -70°C for 3 months under sterile conditions after reconstitution.

SDS-PAGE



Biotinylated Mouse IGFBP-2 Protein, His,Avitag&Flag 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



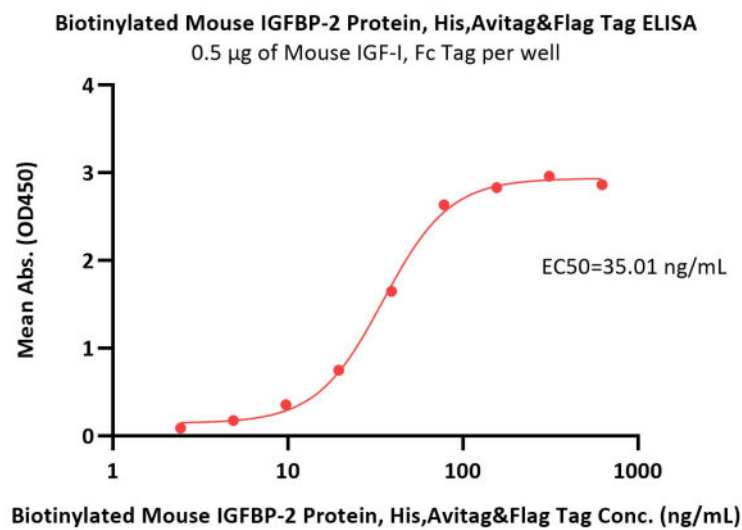
The purity of Biotinylated Mouse IGFBP-2 Protein, His,Avitag&Flag Tag (Cat. No. IG2-M82D3) is more than 90% and the molecular weight of this protein is around 32-52 kDa verified by SEC-MALS.

[Report](#)

Bioactivity-ELISA

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Immobilized Mouse IGF-I, Fc Tag (Cat. No. IG1-M5253) at 5 µg/mL (100 µL/well) can bind Biotinylated Mouse IGFBP-2 Protein, His,Avitag&Flag Tag (Cat. No. IG2-M82D3) with a linear range of 2-78 ng/mL (QC tested).

Background

The protein encoded by this gene is one of six similar proteins that bind insulin-like growth factors I and II (IGF-I and IGF-II). The encoded protein can be secreted into the bloodstream, where it binds IGF-I and IGF-II with high affinity, or it can remain intracellular, interacting with many different ligands. High expression levels of this protein promote the growth of several types of tumors and may be predictive of the chances of recovery of the patient. Several transcript variants, one encoding a secreted isoform and the others encoding nonsecreted isoforms, have been found for this gene.

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