Human IGFBP-2 Protein, His Tag (MALS verified)

Catalog # IG2-H52H4

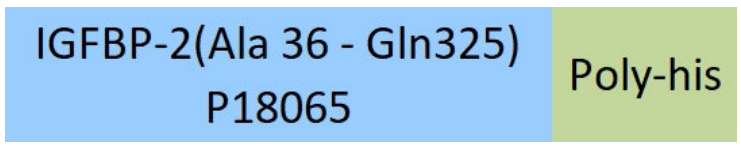
Synonym

IBP2, IGF-BP53

Source

Human IGFBP-2 Protein, His Tag(IG2-H52H4) is expressed from human 293 cells (HEK293). It contains AA Ala 36 - Gln325 (Accession # P18065).
Predicted N-terminus: Ala 36

Molecular Characterization



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

The protein has a calculated MW of 33.3 kDa. The protein migrates as 33-35 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.

Purity

>90% 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

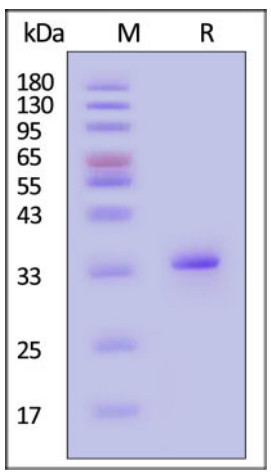
For long term storage, the product should be stored at lyophilized state at -20°C or lower.

Please avoid repeated freeze-thaw cycles.

This product is stable after storage at:

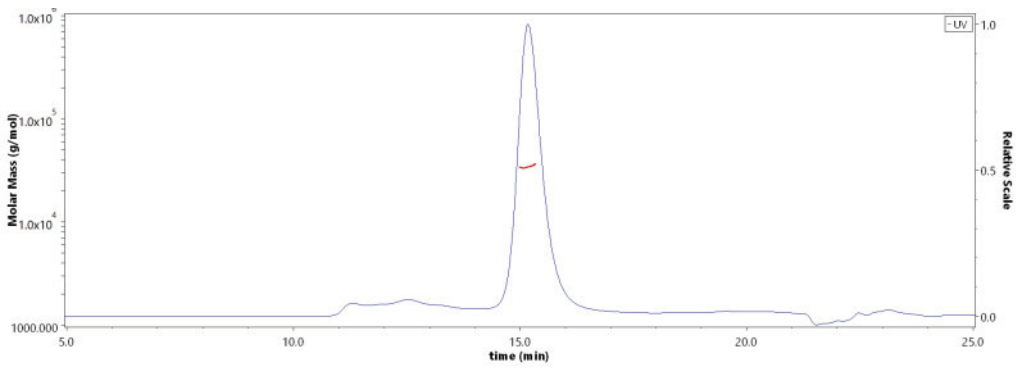
- -20°C to -70°C for 12 months in lyophilized state;
- -70°C for 3 months under sterile conditions after reconstitution.

SDS-PAGE



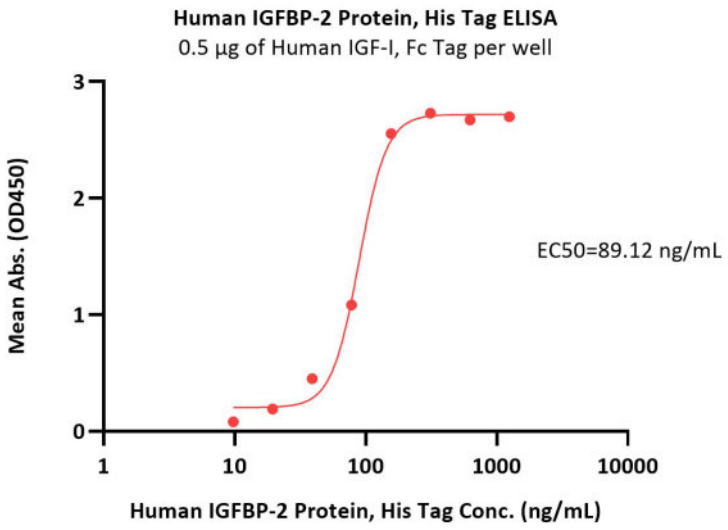
Human IGFBP-2 Protein, His Tag on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 90% (With Star Ribbon Pre-stained Protein Marker).

SEC-MALS

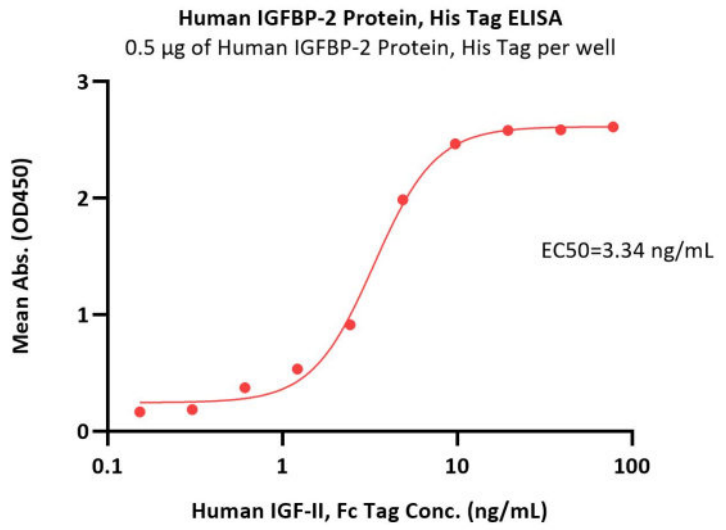


The purity of Human IGFBP-2 Protein, His Tag (Cat. No. IG2-H52H4) is more than 85% and the molecular weight of this protein is around 28-40 kDa verified by SEC-MALS.
Report

Bioactivity-ELISA



Immobilized Human IGF-I, Fc Tag at 5 μg/mL (100 μL/well) can bind Human IGFBP-2 Protein, His Tag (Cat. No. IG2-H52H4) with a linear range of 10-156 ng/mL (QC tested).



Immobilized Human IGFBP-2 Protein, His Tag (Cat. No. IG2-H52H4) at 5 μg/mL (100 μL/well) can bind Human IGF-II, Fc Tag (Cat. No. IG2-H4260) with a linear range of 0.1-5 ng/mL (Routinely 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.

Clinical and Translational Updates

Please contact us via TechSupport@acrobiosystems.com if you have any question on this product.