

Human IGFBP-7 Protein

Cat. No. IGF-HM2BP

Description

Source	Recombinant Human IGFBP-7 Protein Protein is expressed from HEK293 with His tag at the N-Terminus. It contains Ser27-Leu282.
Accession	Q16270
Molecular Weight	The protein has a predicted MW of 27.5 kDa. Due to glycosylation, the protein migrates to 35-40 kDa based on Bis-Tris PAGE result.
Endotoxin	Less than 1EU per μg by the LAL method.
Purity	> 95% as determined by Bis-Tris PAGE > 95% as determined by HPLC

Formulation and Storage

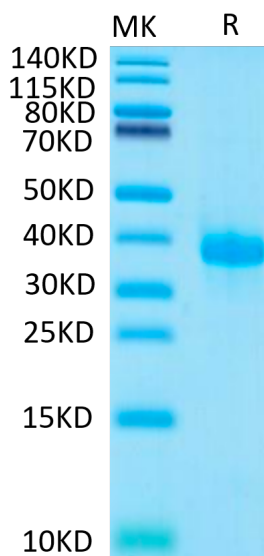
Formulation	Lyophilized from 0.22 μm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
Reconstitution	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 $\mu\text{g}/\text{ml}$ is recommended. Dissolve the lyophilized protein in distilled water.
Storage	-20 to -80°C for 12 months as supplied from date of receipt. -80°C for 3 months after reconstitution. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.

Background

IGFBP-7, also known as Mac25/Angiomodulin (AGM), GFBP-rp1, tumor-derived adhesion factor (TAF) and prostacyclin-stimulating factor (PSF), is a secreted protein that contains three protein domain modules. Human IGFBP-rp1 cDNA encodes 282 amino acid (aa) residue precursor protein with a putative 26 aa signal peptide. IGFBP-7 binds IGF-I and IGF-II with a relatively low affinity. Stimulates prostacyclin (PGI₂) production. Stimulates cell adhesion.

Assay Data

Bis-Tris PAGE

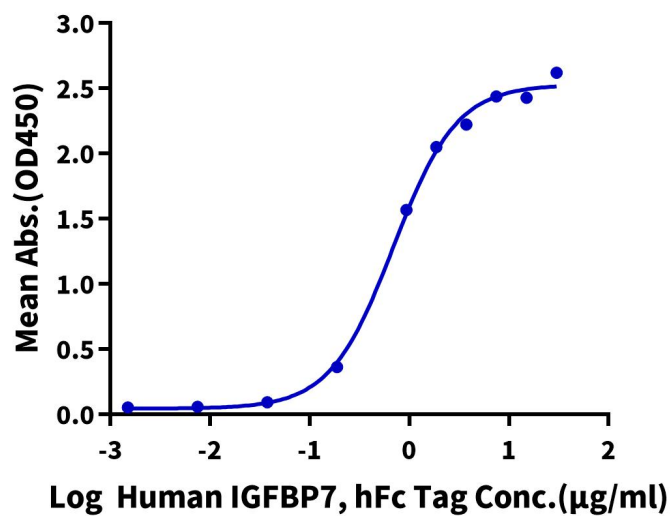


Human IGFBP-7 on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.

ELISA Data

Human IGFBP-7, hFc Tag ELISA

0.5µg Human CD93, His Tag Per Well



Immobilized Human CD93, His Tag at 5µg/ml (100µl/well) on the plate. Dose response curve for Human IGFBP-7, hFc Tag with the EC50 of 0.69µg/ml determined by ELISA (QC Test).