

## Mouse IGFBP-7 Protein

Cat. No. IGF-MM2BP

### Description

<b>Source</b>	Recombinant Mouse IGFBP-7 Protein is expressed from HEK293 with hFc tag at the C-terminus. It contains Ser26-Leu281.
<b>Accession</b>	Q61581
<b>Molecular Weight</b>	The protein has a predicted MW of 53.03 kDa. Due to glycosylation, the protein migrates to 55-70 kDa based on Bis-Tris PAGE result.
<b>Endotoxin</b>	Less than 1EU per $\mu\text{g}$ by the LAL method.
<b>Purity</b>	> 95% as determined by Bis-Tris PAGE > 95% as determined by HPLC

### Formulation and Storage

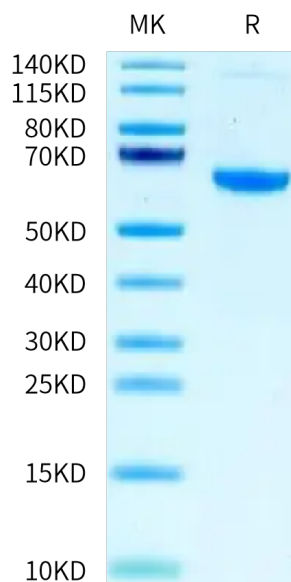
<b>Formulation</b>	Lyophilized from 0.22 $\mu\text{m}$ filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
<b>Reconstitution</b>	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 $\mu\text{g}/\text{ml}$ is recommended. Dissolve the lyophilized protein in distilled water.
<b>Storage</b>	-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 (PGI<sub>2</sub>) production. Stimulates cell adhesion.

### Assay Data

#### Bis-Tris PAGE



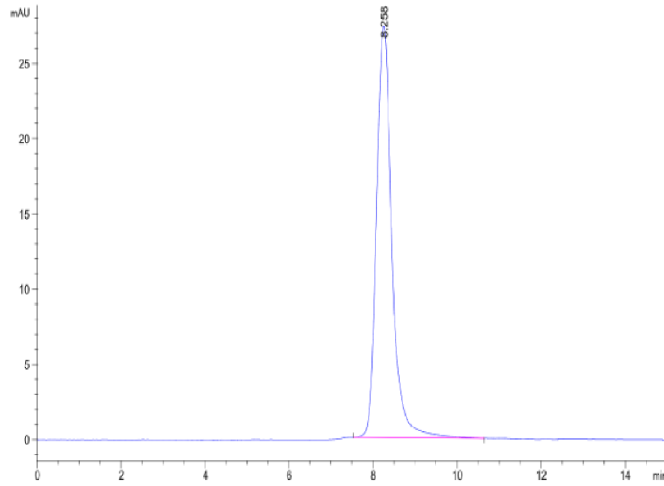
Mouse IGFBP-7 on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.

#### SEC-HPLC

# Mouse IGFBP-7 Protein

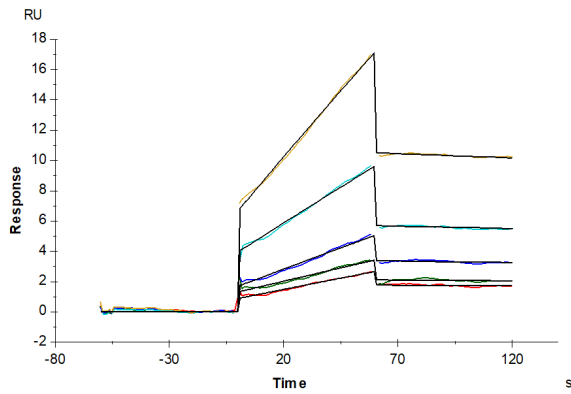
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## Assay Data



The purity of Mouse IGFBP-7 is greater than 95% as determined by SEC-HPLC.

## SPR Data



Mouse IGFBP-7, hFc Tag captured on CM5 Chip via Protein A can bind Human CD93, His Tag with an affinity constant of  $0.59 \mu\text{M}$  as determined in SPR assay (Biacore T200).