

## Product datasheet for **TP728230S**

### Recombinant IGFBP7(IGF-binding protein 7), Human, HEK293

#### Product data:

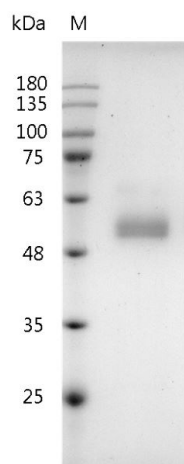
<b>Product Type:</b>	Recombinant Proteins
<b>Description:</b>	Recombinant IGFBP7(IGF-binding protein 7), Human, HEK293
<b>Species:</b>	Human
<b>Expression Host:</b>	HEK293
<b>Expression cDNA Clone or AA Sequence:</b>	A DNA sequence encoding Human IGFBP7 (#Q16270) (Ser27 – Leu282) was expressed with polyhistidine-SUMO tag at the N-terminus.
<b>Tag:</b>	His-SUMO Tag (N-term)
<b>Predicted MW:</b>	The protein has a calculated MW of 38.18 kDa. The protein migrates as 55 kDa under reducing condition (SDS-PAGE analysis).
<b>Purity:</b>	>95% as determined by SDS-PAGE.
<b>Buffer:</b>	The protein was lyophilized from a 0.2 µm filtered solution containing 1X PBS, pH 7.4.
<b>Bioactivity:</b>	Testing in process
<b>Endotoxin:</b>	<1 EU per 1 µg of the protein by the LAL method.
<b>Reconstitution Method:</b>	Centrifuge at 3000 rpm for 5 mins before opening. It is recommended to reconstitute the lyophilized protein in sterile H <sub>2</sub> O to a concentration not less than 200 µg/mL and incubate the stock solution at room temperature for at least 20 mins to ensure sufficient re-dissolved. Do Not Vortex! Vigorous shaking may impair the biological activity of the protein.
<b>Applications:</b>	Cell culture
<b>Storage:</b>	Lyophilized protein should be stored at -20°C for 1 year. Upon reconstitution, store at 2°C to 8°C for up to 1 week. Further dilute in a buffer containing a carrier protein or stabilizer (e.g. 0.1% BSA, 10%FBS, 5%HSA or 5% trehalose solution), protein aliquots should be stored at -20°C or -80°C for 3-6 months. Avoid repeated freeze/thaw cycles.
<b>UniProt ID:</b>	<a href="#">Q16270</a>
<b>Synonyms:</b>	IBP-7, IGFBP-7, IGFBP-rP1, MAC25, PSF(Prostacyclin-stimulating factor), TAF(Tumor-derived adhesion factor)



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**Summary:**

IGFBP7, also known as mac25, prostacyclin-stimulating factor (PSF), tumor adhesion factor (TAF), and angiomodulin (AGM), is a secreted protein that belongs to the insulin-like growth factor (IGF)-binding protein (IGFBP) family. In contrast to the other family members, IGFBP7 binds IGFs through the N-terminal domain with low affinity. IGFBP7 is expressed in various human tissues, including the brain, liver, pancreas, and skeletal muscle, and is secreted into circulation. IGF-BP7 modulates many biological functions, such as protein synthesis, proliferation, anti-apoptosis, and cell survival. Moreover, it has been reported that IGFBP7 promotes cardiac senescence through IGF-1R/IRS/AKT-dependent suppression of FOXO3a, inhibiting DNA repair, subsequently the leading to the progression of Heart failure. Human and mouse IGFBP7 are highly homologous, sharing 94% a.a. sequence identity.

**Product images:**

SDS- PAGE analysis of recombinant human IGFBP7