

## IGFBP-7 Protein, Human, Recombinant (hFc)

### General Information

Synonyms:	RAMSVPS;TAF;IGFBPRP1;AGM;IBP7;MAC25;IGFBP-7v;IGFBP-7;PSF;FSTL2
Protein Construction:	Ser27-Leu282
Species:	Human
Expression Host:	HEK293 Cells
Accession:	IGFBP-7
Molecular Weight:	53.20 kDa (predicted). Due to glycosylation, the protein migrates to 60-70 kDa based on Tris-Bis PAGE result.

### QC Testing

Biological Activity:	Immobilized Human CD93, His Tag at 2µg/ml (100µl/well) on the plate. Dose response curve for Human IGFBP-7, hFc Tag with the EC50 of 0.80µg/ml determined by ELISA.
Purity:	> 95% as determined by Tris-Bis PAGE; > 95% as determined by HPLC
Endotoxin:	< 1.0 EU/µg of the protein as determined by the LAL method.
Formulation:	Lyophilized from a solution filtered through a 0.22 µm filter, containing PBS (pH 7.4). Typically, 8% trehalose is incorporated as a protective agent before lyophilization.

### Preparation and Storage

#### Reconstitution:

Reconstitute the lyophilized protein in distilled water. The product concentration should not be less than 100 µg/ml. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.

#### Stability & Storage:

It is recommended to store recombinant proteins at -20°C to -80°C for future use. Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

#### Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

### Protein 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.

Reference

Li N, et al. IGFBP-7 inhibits the differentiation of oligodendrocyte precursor cells via regulation of Wnt/ $\beta$ -Catenin signaling. J Cell Biochem. 2018;119(6):4742-4750. doi:10.1002/jcb.26654.

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