

## IGFBP7

### Recombinant Human IGF-Binding Protein 7 (His Tag)

<b>Catalog No.</b>	CRH693A-His CRH693B-His	<b>Quantity:</b>	20 µg 50 µg
<b>Alternate Names:</b>	Insulin-like growth factor-binding protein 7, IBP-7, IGF-binding protein 7, IGFBP-7, IGFBP-rP1, MAC25 protein, PGI2-stimulating factor, Prostacyclin-stimulating factor, Tumor-derived adhesion factor, TAF		
<b>Description:</b>	Insulin like growth factor binding protein 7 (IGFBP7) is a member of the IGFBP family. It has been identified in colorectal adenocarcinoma cell lines. IGFBPs are clearly distinct but are sharing regions with strong homology. All members of the IGFBP family bind IGF-I and IGF-II with about equal affinity. Insulin-like growth factor (IGF) binding proteins (IGFBPs) have been shown to either inhibit or enhance the action of IGF, or act in an IGF-independent manner in the prostate. IGFBP7 could inhibit cell growth, decrease soft agar colony formation activity and induce apoptosis in RKO and SW62 cells. There is mounting evidence that the structure of the IGFBP proteins plays a key role in the regulation of IGF bioavailability, by modulating its molecular size, capillary membrane permeability, target tissue specificity, cell membrane adherence and IGF affinity.		
<b>UniProt ID:</b>	Q16270		
<b>Protein Construction:</b>	A DNA sequence encoding the human IGFBP7 (Asp 30-Leu 282) was fused with a polyhistidine tag at the N-terminus.		
<b>Source:</b>	HEK293 Cells		
<b>Formulation:</b>	Lyophilized from sterile PBS, pH 7.4 Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization.		
<b>Molecular Weight:</b>	The secreted rhIGFBP7 comprises 273 amino acids with a predicted MW of 28.6 kDa and migrates at ~36 kDa in SDS-PAGE under reducing conditions.		
<b>Purity:</b>	> 92 % as determined by SDS-PAGE.		
<b>Endotoxin Level:</b>	< 1.0 EU per µg of the protein as determined by the LAL method		
<b>Biological Activity:</b>	1. Measured by its ability to bind biotinylated recombinant human CCL21 in a functional ELISA. 2. Measured by its ability to bind biotinylated recombinant human VEGF165 in a functional ELISA. 3. Measured by its ability to bind biotinylated recombinant human IGF2 in a functional ELISA.		
<b>Predicted N-terminal:</b>	His		
<b>Reconstitution:</b>	<b>Centrifuge vial prior to opening.</b> Add sterile distilled water to a concentration of 0.1 mg/mL and gently pipette the solution up and down the sides of the vial. <b>DO NOT VORTEX.</b> Allow several minutes for complete reconstitution.		



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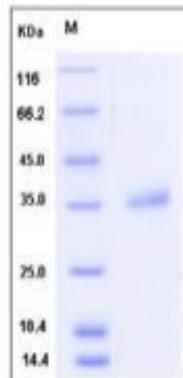
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**Storage & Stability:** Stable for up to 1 year from date of receipt at -20°C to -80°C  
After reconstitution, store working aliquots at -20°C to -80°C.  
**Avoid repeated freeze-thaw cycles.**

SDS-PAGE



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