

IGFBP7 recombinant protein

IGFBP7 Protein, Human, Recombinant (K95R, His Tag), HPLC-verified

CATALOG #
AAA259193

HOST
HEK293 Cells

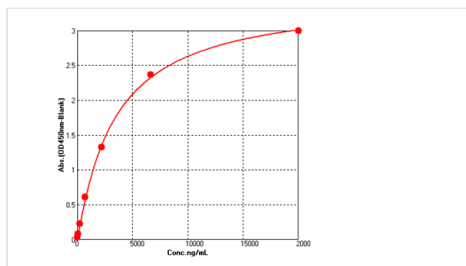
PRODUCT SYNONYMS

IGFBP7; IGFBP7 Protein; Human; Recombinant (K95R; His Tag); HPLC-verified; insulin-like growth factor binding protein 7; AGM Protein; FSTL2 Protein; IBP-7 Protein; IGFBP-7 Protein; IGFBP-7v Protein; IGFBPRP1 Protein; MAC25 Protein; PSF Protein; RAMSVPS Protein; TAF Protein; IGFBP7 recombinant protein

PRODUCT SPECIFICATIONS

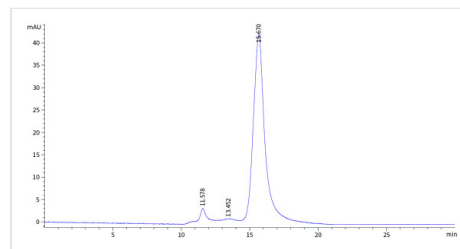
Host	HEK293 Cells
Purity/Purification	>= 95% as determined by SDS-PAGE. = 90% as determined by SEC-HPLC.
Form/Format	Lyophilized from sterile PBS, pH 7.4. Normally 5%-8% trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization.
Species	Human
Predicted N Terminal	His
Endotoxin	<1.0 EU per ug protein as determined by the LAL method.
Protein Construction	A DNA sequence encoding the Human IGFBP7 (Q16270)(Asp30-Leu282) was expressed, with a polyhistidine tag at the N-terminus.
Activity	Immobilized Recombinant Human IGFBP7 Protein (K95R, His Tag)(Cat:13100-H07H1) at 2 ug/mL (100 uL/well) can bind Recombinant Human CD93/C1QR1 Protein (Fc Tag)(Cat:12589-H02H) with a linear range of 0.7-5.0 ug/mL.
Preparation and Storage	Samples are stable for up to twelve months from date of receipt at -20 degree C to -80 degree C. Store it under sterile conditions at -20 degree C to -80 degree C. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

IMAGES

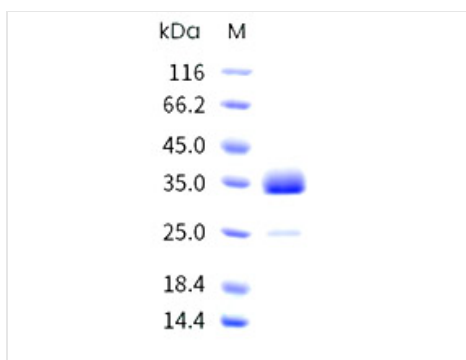


Application Data

Immobilized Recombinant Human IGFBP7 Protein (K95R, His Tag) (Cat:AAA259193) at 2 ug/mL (100 uL/well) can bind Recombinant Human CD93 / C1QR1 Protein (Fc Tag) (Cat:12589-H02H) with a linear range of 0.7-5.0 ug/mL.



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ADDITIONAL INFORMATION

Related Product Information for IGFBP7 recombinant protein	Insulin-like growth factor-binding protein 7 (IGFBP7) is a member of the IGFBP family. It has been identified in colorectal adenocarcinoma (CRC) cell lines. The Insulin-like growth factor-binding protein also known as IGFBP serves as a carrier protein for Insulin-like growth factor 1. IGFBPs are 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 SW620 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.
References	Oh Y, et al. (1996) Synthesis and characterization of insulin-like growth factor-binding protein (IGFBP)-7. Recombinant human mac25 protein specifically binds IGF-I and -II. J Biol Chem. 271(48): 30322-5. Wilson EM, et al. (1997) Generation and characterization of an IGFBP-7 antibody: identification of 31kD IGFBP-7 in human biological fluids and Hs578T human breast cancer conditioned media. J Clin Endocrinol Metab. 82(4): 1301-3. Lin J, et al. (2007) Methylation patterns of IGFBP7 in colon cancer cell lines are associated with levels of gene expression. J Pathol. 212(1): 83-90.

NCBI AND UNIPROT INFORMATION

NCBI GI #	23396609
NCBI GeneID	3490
UniProt Accession #	Q16270 ; Q07822 ; Q53YE6 ; Q9UCA8 ; B4E1N2 ; B7Z9W7
Molecular Weight	282
NCBI Official Full Name	Insulin-like growth factor-binding protein 7
NCBI Official Synonym Full Names	insulin-like growth factor binding protein 7
NCBI Official Symbol	IGFBP7
NCBI Official Synonym Symbols	AGM; PSF; TAF; FSTL2; IBP-7; MAC25; IGFBP-7; RAMSVPS; IGFBP-7v; IGFBPRP1
NCBI Protein Information	insulin-like growth factor-binding protein 7; IGFBP-rP1; angiomodulin; IGF-binding protein 7; PG12-stimulating factor; tumor-derived adhesion factor; prostacyclin-stimulating factor
UniProt Protein Name	Insulin-like growth factor-binding protein 7
UniProt Gene Name	IGFBP7
UniProt Synonym Gene Names	MAC25; PSF; IBP-7; IGF-binding protein 7; IGFBP-7; TAF
UniProt Entry Name	IBP7_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

