

## Recombinant human IGFBP7, His-tagged

**Cat. No.** IGFBP7-2483H    **Lot. No.** (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant human IGFBP7 protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.
<b>Description</b>	IGFBP7 is a member of the insulin-like growth factor (IGF)-binding protein (IGFBP) family. IGFBPs bind IGFs with high affinity, and regulate IGF availability in body fluids and tissues and modulate IGF binding to its receptors. This protein binds IGF-I and IGF-II with relatively low affinity, and belongs to a subfamily of low-affinity IGFBPs. It also stimulates prostacyclin production and cell adhesion. Alternatively spliced transcript variants encoding different isoforms have been described for this gene, and one variant has been associated with retinal arterial macroaneurysm.
<b>Source</b>	E.coli
<b>Species</b>	Human
<b>Tag</b>	His
<b>Form</b>	Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 0.2M NaCl, 50% glycerol, 2mM DTT, 1mM EDTA
<b>Molecular Mass</b>	28.8kDa (279aa) confirmed by MALDI-TOF
<b>AA Sequence</b>	MGSSHHHHHH SSGLVPRGSH MGSSSSDTCG PCEPASCPL PPLGCLLGET RDACGCCPMC ARGEGEPCGG GGAGRGYCAP GMECVKSRSRK RKGKAGAAAG GPGVSGVCVC KSRYPVCGSD GTTYPSCQQL RAASQRAESR GEKAITQVSK

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	GTCEQGPSIV TPPKDIWNVT GAQVYLSCEV IGIPTVLIW NKVKRGHYGV QRTELLPGDR DNLAIQTRGG PEKHEVTGWV LVSPLSKEDA GEYECHASN QQQASASAKI TVVDALHEIP VKKGEGAEI
<b>Purity</b>	>85 % by SDS - PAGE
<b>Applications</b>	SDS-PAGE
<b>Storage</b>	Can be stored at +4C short term (1-2 weeks). For long term storage, aliquot and store at -20C or -70C. Avoid repeated freezing and thawing cycles.
<b>Concentration</b>	0.25 mg/ml (determined by Bradford assay)

## GENE INFORMATION

<b>Gene Name</b>	IGFBP7 insulin-like growth factor binding protein 7 [ Homo sapiens ]
<b>Official Symbol</b>	IGFBP7
<b>Synonyms</b>	IGFBP7; insulin-like growth factor binding protein 7; insulin-like growth factor-binding protein 7; FSTL2; IGFBP 7; MAC25; PSF; IGFBP-rP1; angiomodulin; IGF-binding protein 7; PGI2-stimulating factor; tumor-derived adhesion factor; prostacyclin-stimulating factor; AGM; TAF; IBP-7; IGFBP-7; RAMSVPS; IGFBP-7v; IGFBPRP1;
<b>Gene ID</b>	3490
<b>mRNA Refseq</b>	NM_001253835
<b>Protein Refseq</b>	NP_001240764
<b>MIM</b>	602867

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UniProt ID	Q16270
Chromosome Location	4q12
Pathway	Senescence and Autophagy, organism-specific biosystem;
Function	insulin-like growth factor binding; protein binding;

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