

Recombinant human IGFBP7, His-tagged

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

SPECIFICATION

Product Overview	Recombinant human IGFBP7 protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.
Species	Human
Source	E.coli
Description	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.
Form	Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 0.2M NaCl, 50% glycerol, 2mM DTT, 1mM EDTA
Molecular Mass	28.8kDa (279aa) confirmed by MALDI-TOF
AA Sequence	MGSSHHHHHH SSGLVPRGSH MGSSSSDTCG PCEPASCPL PPLGCLLGET RDACGCCPMC ARGEGEPCGG GGAGRGYCAP GMECVKSRKR RKGKAGAAAG GPGVSGVCVC KSRYPVCGSD GTTYPGSCQL RAASQRAESR GEKAITQVSK GTCEQGPSIV TPPKDIWNVT GAQVYLSCEV IGIPTPVLIW NKVKRGHYGV QRTELLPGDR DNLAIQTRGG PEKHEVTGWV LVSPLSKEDA GEYECHASNS

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

QQQASASAKI TVVDALHEIP VKKGEGAEI

Purity >85 % by SDS - PAGE

Applications SDS-PAGE

Storage 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.

Concentration 0.25 mg/ml (determined by Bradford assay)

GENE INFORMATION

Gene Name IGFBP7 insulin-like growth factor binding protein 7 [Homo sapiens]

Official Symbol IGFBP7

Synonyms 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;

Gene ID 3490

mRNA Refseq NM_001253835

Protein Refseq NP_001240764

MIM 602867

UniProt ID Q16270

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

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