

**IGFBP7, 27-282aa, Human, His tag, E.coli**

**Cat.NO.: TP02585**

3th Edition

**Synonyms:**insulin-like growth factor-binding protein 7 isoform 1 precursor, AGM, FSTL2, IBP-7, IGFBP-7, IGFBP-7v, IGFBPRP1, MAC25, PSF, RAMSVPS, TAF

**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 Recombinant human IGFBP7 protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.

**Form:**Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 0.2M NaCl, 50% glycerol, 2mM DTT, 1mM EDTA

**Molecular Weight:**28.8kDa (279aa) confirmed by MALDI-TOF

**Sequences:**

MGSSHHHHHHSSGLVPRGSHMGSSSSDTCGPCEPASCPLPPLGCLLGETRDACGCCPMCARGEGEPCGGGG  
AGRGYCAPGMECVKSRKRRKGKAGAAAGGPGVSGVCVCKSRYPVCGSDGTTYPSCQLRAASQRAESRGEKAI  
TQVSKGTCEQGSPSIVTPPKDIWNVTGAQVYLSCEVIGIPTPVLINWNVKRGHYGVQRTELLPGDRDNLAIQTRGGPE  
KHEVTGWVLVSPLSKEDAGEYECHASNSQGGQASASAKITVVDALHEIPVKKGEGAEI

**Purity:**> 95% by HPLC

**Concentration:**0.25 mg/ml (determined by Bradford assay)

**Endotoxin Level:**<1.0 EU per 1 ug of protein (determined by LAL method)

**Storage:**Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.