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AR51303PU-S Human IGFBP7 (27-282, His-tag) - Purified

Alternate names: IBP-7, IBP7, IGF-binding protein 7, IGFBP-7, IGFBP-rP1, Insulin-like growth factor-binding protein 7, MAC25, PGI2-stimulating factor, PSF, Prostacyclin-stimulating factor, TAF, Tumor-derived adhesion factor

Quantity: 20 µg

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

Background: 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

Uniprot ID: Q16270

NCBI: NP_001544

GeneID: 3490

Species: Human

Source: E. coli

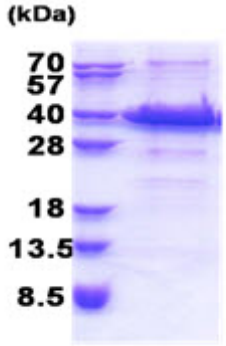
Format:
State: Liquid purified protein
Purity: >85% by SDS - PAGE
Buffer System: 20 mM Tris-HCl buffer (pH 8.0) containing 0.2M NaCl, 50% glycerol, 2mM DTT, 1mM EDTA

Description: Recombinant human IGFBP7 protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.
AA Sequence:
MGSSHHHHHH SSGLVPRGSH MGSSSSDTCG PCEPASCPPL PPLGCLLGET RDACGCCPMC
ARGEGEPCGG GGAGRGYCAP GMECVKSRKR RKGKAGAAAG GPGVSGVCVC KSRYPVCGSD
GTTYPSGCQL RAASQRAESR GEKAITQVSK GTCEQGPSIV TPPKDIWNVT GAQVYLSCEV
IGIPTPVLIW NKVKRGHYGV QRTELLPGDR DNLAIQTRGG PEKHEVTGWV LVSPLSKEDA
GEYECHASNS QGQASASAKI TVVDALHEIP VKKGEGAEL
Molecular weight: 28.8 kDa (279aa) confirmed by MALDI-TOF

Storage: Store undiluted at 2-8°C for one week or (in aliquots) at -20°C to -80°C for longer. Avoid repeated freezing and thawing. Shelf life: one year from despatch.

General Readings:
Akaogi K., et al (1994). Biochem. Biophys. Res. Commun. 198:1046-1053
Oh Y., et al (1996). J. Biol. Chem. 271:30322-30325

Pictures:



15% SDS-PAGE (3ug)