

Recombinant human IGFBP-rp1/IGFBP-7 protein

Catalog Number: ATGP2483

PRODUCT INFORMATION

Expression system

E.coli

Domain

27-282aa

UniProt No.

Q16270

NCBI Accession No.

NP_001544

Alternative Names

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

PRODUCT SPECIFICATION

Molecular Weight

28.8 kDa (279aa) confirmed by MALDI-TOF

Concentration

0.25mg/ml (determined by Bradford assay)

Formulation

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

Purity

> 85% by SDS-PAGE

Tag

His-Tag

Application

SDS-PAGE

Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

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

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

Amino acid Sequence

MGSSHHHHHHH SSGLVPRGSH MGSSSSDTCG PCEPASCPL PPLGCLLGET RDACGCCPMC ARGEGEPCGG
GGAGRGYCAP GMECVKSRKR RKGKAGAAAG GPGVSGVCVC KSRYPVCGSD GTTYPGCGQL RAASQRAESR
GEKAITQVSK GTCEQGPSIV TPPKDIWNVT GAQVYLSCEV IGIPTPVLW NKVKRGHYGV QRTELLPGDR DNLAIQTRGG
PEKHEVTGWV LVSPLSKEDA GEYECHASNS QGQASASAKI TVVDALHEIP VKKGEGAEL

General References

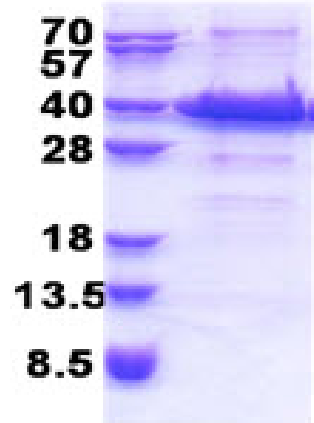
Akaogi K., et al (1994). Biochem. Biophys. Res. Commun. 198:1046-1053

Oh Y., et al (1996). J. Biol. Chem. 271:30322-30325

DATA

SDS-PAGE

(kDa)



15% SDS-PAGE (3ug)

3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.