

IFGBP7

Recombinant Human IGF-BP7

Catalog No.	CRI511B	Quantity:	25 µg
Alternate Names:	Insulin-like Growth Factor Binding Protein 7, Tumor-derived adhesion factor, TAF, MAC25 protein, Prostacyclin-stimulating factor		
Description:	IGF-BPs controls the distribution, function and activity of IGFs in various cell tissues and body fluids. Currently there are seven named IGF-BPs that form high affinity complexes with both IGF-I and IGF-II. IGF-BP7 is expressed in a wide range of normal human tissues and it generally shows reduced expression in cancer cell lines of prostate, breast, colon, and lung origin. It plays a role in skeletal myogenesis by binding to IGF in a manner that inhibits IGF induced differentiation of skeletal myoblasts, without affecting IGF induced proliferation. Additionally, IGF-BP7 suppresses growth and colony formation of prostate and breast cancer cell lines through an IGF independent mechanism, which causes a delay in the G1 phase of the cell cycle, and increased apoptosis.		
UniProt ID:	Q16270		
GenelD:	3490		
Source:	<i>E. coli</i>		
Molecular Weight:	26.4 kDa (256 aa)		
Formulation:	Lyophilized from 5 mM sodium phosphate, pH 6.8		
Purity:	> 98% by SDS-PAGE and HPLC analyses		
Endotoxin Level:	< 1 EU/µg		
Biological Activity:	Testing in progress		
Amino Acid Sequence:	SSSDTCGPCE PASCPLPPL GCLLGETRDA CGCCPMCARG EGEP CGGGGA GRGYCAPGME CVKSRKRRKG KAGAAAGGPG VSGVCVCKSR YPVC GSDGTT YPSGCQLRAA SQRAESRGEK AITQVSKGTC EQGPSIVTPP KDIWNVTGAQ VYLSCEVIGI PTPVLIWNKV KRGHYGVQRT ELLPGDRDNL AIQTRGGPEK HEVTGWVLVS PLSKEDAGEY ECHASNSQGQ ASASAKITVV DALHEIPVKK GEGAEI		
Reconstitution:	Centrifuge vial prior to opening. Add PBS or medium to the vial to fully solubilize the protein to a concentration ≥ 100 µg/ml. For extended storage, it is recommended to further dilute in a buffer containing a carrier protein such as 0.1% BSA and store in working aliquots at -20°C to -80°C.		
Storage & Stability:	Lyophilized protein is stable for 1 year at -20°C to -80°C. Store reconstituted protein in working aliquots at -20°C to -80°C. Avoid repeated freeze-thaw cycles.		

NOT FOR HUMAN USE. FOR RESEARCH ONLY. NOT FOR DIAGNOSTIC OR THERAPEUTIC USE.