

# Growth Factor Data Sheet

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IGFBP7 belongs to the superfamily of insulin-like growth factor (IGF) binding proteins and is encoded by the IGFBP7 gene in human. It 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. IGFBP7 includes conserved cysteine residues. IGFBP7 modulates the biological activities of IGF proteins. It also suppresses growth and colony formation of prostate and breast cancer cell lines. Above all, IGFBP7 is a very important factor in skeletal myogenesis. Human IGFBP7 cDNA encodes a 282 amino acid (a.a.) residue precursor protein with a putative 26 a.a. signal peptide.

<b>Catalog Number</b>	<b>1150-01B7</b>
<b>Product Name</b>	<b>IGFBP7, Human</b> Recombinant Human Insulin-like Growth Factor Binding Protein 7 MAC25 IGF Binding Protein-Related Protein 1 (IGFBPrP1) Tumor-derived Adhesion Factor (TAF) Prostacyclin Stimulating Factor (PSF) Angiomodulin (AGM) FSTL2 IBP-7
<b>Source</b>	<i>Escherichia coli</i>
<b>MW</b>	~26.4 kDa (256 amino acids.)
<b>Sequence</b>	SSSDTCGPCE PASCPLPLPL GCLLGETRDA CGCCPMCARG EGEPGGGGGA GRGYCAPGME CVKSRKRRKG KAGAAAGGPG VSGVCVCKSR YPVCGSDGTT YPSGCQLRAA SQRAESRGEK AITQVSKGTC EQGPSIVTTP KDIWNVTGAQ VYLSCEVIGI PTPVLIWNKV KRGHYGVQRT ELLPGDRDNL AIQTRGGPEK HEVTGWVVLVS PLSKEDAGEY ECHASNSQGG ASASAKITVV DALHEIPVKK GEGAEL
<b>Accession Number</b>	<a href="#">Q16270</a>
<b>Purity</b>	>95% by SDS-PAGE and HPLC analyses
<b>Formulation</b>	Sterile filtered white lyophilized powder. Purified and tested for use in cell culture.
<b>Storage/Handling</b>	This lyophilized preparation is stable at 2-8°C, but should be kept at -20°C for long term storage. The reconstituted sample can be apportioned into working aliquots and stored at -80 °C for up to 6 months. Avoid repeated freeze/thaw cycles.
<b>Reconstitution</b>	The sample should be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute in a siliconized tube using PBS that contains a 0.1% BSA to a concentration of 0.1-1.0 mg/mL. Reconstituted solutions are stable for up to one week at 2-8°C. Stock solutions should be aliquoted and stored at -80°C. Further dilutions should be made in appropriate buffered solutions containing BSA or serum.