

## 32-1354: IGFBP7 Recombinant Protein

**Alternative Name :** Insulin-like growth factor-binding protein 7,IBP-7,IGF-binding protein 7,IGFBP-7,IGFBP-rP1,MAC25 protein,PGI2-stimulating factor,Prostacyclin-stimulating factor,Tumor-derived adhesion factor,TAF,IGFBP7,MAC25,PSF,AGM,FSTL2,RAMSVPS,IGFB

### Description

Source : Escherichia Coli. Recombinant Human IGFBP7 produced in E.coli cells is a non-glycosylated, homodimeric protein containing 2x256 amino acid chains and having a molecular mass of 26.4kDa. The IGFBP-7 is purified by proprietary chromatographic techniques. Insulin-like Growth Factor-Binding Protein 7 (IGFBP7) is a member of the IGFBP family. IGFBP family members are all cysteine rich proteins with conserved cysteine and have an IGFBP domain, a Kazal-like domain and an Ig-like C2-type domain. IGFBP7 is expressed in a broad range of normal human tissues and it mostly shows reduced expression in cancer cell lines of prostate, breast, colon, and lung origin. IGFBP7 has a role in skeletal myogenesis by binding to IGF in a manner which inhibits IGF induced differentiation of skeletal myoblasts, without disturbing IGF induced proliferation. Moreover, IGFBP7 suppresses growth and colony formation of prostate and breast cancer cell lines via an IGF independent mechanism, which triggers a delay in the G1 phase of the cell cycle, and increased apoptosis.

### Product Info

**Amount :** 25 µg  
**Purification :** Greater than 97.0% as determined by:(a) Analysis by RP-HPLC.(b) Analysis by SDS-PAGE.  
**Content :** The IGFBP7 was lyophilized from a 0.2µm filtered concentrated solution in 20mM Tris-HCl, pH 8.5 and 150mM NaCl.  
**Storage condition :** Lyophilized IGFBP7 although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution IGFBP-7 should be stored at 4°C between 2-7 days and for future use below -18°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA).Please prevent freeze-thaw cycles.  
**Amino Acid :** SSSDTCGPCE PASCPLPL GLLGETRDA CGCCPMCARG EGEPGGGGA GRGYCAPGME CVKSRKRRKG KAGAAAGGPG VSGVCVCKSR YPVCSDGTT YPSGCQLRAA SQRAESRGEK AITQVSKGTC EQGPSIVTPP KDIWNVTGAQ VYLSCEVIGI PTPVLIWNKV KRGHYGVQRT ELLPGDRDNL AIQTRGGPEK HEVTGWVLVS PLSKEDAGEY ECHASNSQGG ASASAKITVV DALHEIPVKK GEGAEL.

### Application Note

It is recommended to reconstitute the lyophilized IGFBP-7 in sterile 20mM AcOH (acetic Acid) not less than 100µg/ml, which can then be further diluted to other aqueous solutions.