

## 32-20196: Animal-Free Recombinant Human IGF-BP7(Discontinued)

**Alternative Name :** Insulin-like Growth Factor-Binding Protein 7, IBP-7, Mac25, IGF binding protein related protein-1 (IGFBP-rP1)

### Description

**Source:** *E. coli* IGF-BPs control 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. Recombinant Human IGF-BP7 is a 26.4 kDa protein consisting of 256 amino acid residues.

### Product Info

**Amount :** 5 µg / 25 µg

**Purification :** Purity:  $\geq$  98% by SDS-PAGE gel and HPLC analyses.

**Content :** This recombinant protein is supplied in lyophilized form.

**Amino Acid :** SSSDTCGPCE PASCPLPL GLLGETRDA CGCCPMCARG EGPCGGGGA GRGYCAPGME  
CVKSRKRRKG KAGAAAGGPG VSGVCVCKSR YPVCSDGTT YPSGCQLRAA SQRAESRGEK  
AITQVSKGTC EQGPSIVTPP KDIWNVTGAQ VYLSCEVIGI PTPVLIWNKV KRGHYGVQRT ELLPGDRDNL  
AIQTRGGPEK HEVTGWVLVS PLSKEDAGEY ECHASNSQGQ ASASAKITVV DALHEIPVKK GEG AEL