

## 32-20191: Recombinant Human IGF-BP1(Discontinued)

**Reactivity :** Human

**Alternative Name :** Insulin-like Growth Factor-Binding Protein 1, IBP-1, Placenta Protein 12 (PP12)

### 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-BP1 is a 25.4 kDa, cysteine-rich, secreted protein expressed in the liver, deciduas, kidneys, and in amniotic fluid, where it is the most abundant IGF-BP. Levels of IGF-BP1 in serum are lowest after food consumption. IGF-BP1 binds to both IGF-I and IGF-II with equal affinity. Phosphorylated IGF-BP1 hinders IGF actions, whereas nonphosphorylated IGF-BP1 is stimulatory. Recombinant Human IGF-BP1 is a 25.4 kDa protein consisting of 235 amino acid residues (Isoform A).

### Product Info

**Amount :** 5 µg / 25 µg

**Purification :** Purity: >= 98% by SDS-PAGE gel and HPLC analyses.

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

**Amino Acid :** MAPWQCAPCS AEKLALCPPV SASCSEVTRS AGCGCCPMCA LPLGAACGVA TARCARGLSC  
RALPGEQQPL HALTRGQGAC VQESDASAPH AAEAGSPESP ESTEITEEEL LDNFHLMAPS EEDHSILWDA  
ISTYDGSKAL HVTNIKKWKE PCRIELYRVV ESLAKAQETS GEEISKFYLP NCNKNGFYHS RQCETSM DGE  
AGLCWCVYPW NGKRIPGSPE IRGDPNCQIY FNVQN

### Application Note

The  $ED_{50}$  was determined by its ability to inhibit IGF-I induced proliferation of MCF-7 is  $\leq 0.5 \mu\text{g/ml}$  in the presence of 6 ng/ml of human IGF-I.