

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.