



# Recombinant Human IGF-BP1

20150227BB



**FOR RESEARCH ONLY! NOT FOR HUMAN USE!**

<b>Cat.-no.:</b>	<b>100-197</b>
<b>Size:</b>	25 µg
<b>Lot. No.:</b>	According to product label

## Scientific Background

<b>Gene-ID (NCBI):</b>	3484
<b>Synonyms:</b>	IGFBP1; AFBP; IBP1; PP12; IGF-BP25; hIGFBP-1

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

### Sequence

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MAPWQCAPCS AEKLALCPPV SASCSEVTRS AGCGCCPMCA
LPLGAACGVA TARCARGLSC RALPGEQQPL HALTRGQGAC
VQESDASAPH AAEAGSPESP ESTEITEEEL LDNFHLMAPS
EEDHSILWDA ISTDGSKAL HVTNIKKWKE PCRIELYRVV
ESLAKAQETS GEEISKFYLP NCNKNGFYHS RQCETSMGDG
AGLCWCVPWP NGKRIPGSPE IRGDPNCQIY FNVQN
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### Database References

<b>Protein RefSeq:</b>	NP_000587.1
<b>Uniprot ID:</b>	P08833
<b>mRNA RefSeq:</b>	NM_000596.2

## Product Specifications

<b>Expressed in</b>	E. coli
<b>Purity</b>	> 98% by SDS-PAGE & HPLC analyses
<b>Endotoxin level</b>	< 0.1 ng /µg of protein (<1EU/µg).
<b>Formulation</b>	lyophilized
<b>Length (aa):</b>	235
<b>MW:</b>	25.4 kDa

**Biological Activity:** The ED50 was determined by its ability to inhibit IGF-I induced proliferation of MCF-7 is ≤ 0.5 µg/ml in the presence of 6 ng/ml of human IGF-I.



**AVOID REPEATED FREEZE AND THAW CYCLES!**