

## IGFBP1

### Recombinant Human IGF-BP1

<b>Catalog No.</b>	CRI262B	<b>Quantity:</b>	25 µg
<b>Alternate Names:</b>	Insulin-like growth factor-binding protein 1, Placental protein 12, PP12		
<b>Description:</b>	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 non-phosphorylated IGF-BP1 is stimulatory.		
<b>UniProt ID:</b>	P08833		
<b>Gene ID:</b>	3484		
<b>Source:</b>	<i>E. coli</i>		
<b>Molecular Weight:</b>	25.4 kDa (235 aa)		
<b>Formulation:</b>	Lyophilized from PBS		
<b>Purity:</b>	> 98% by SDS-PAGE and HPLC analysis		
<b>Endotoxin Level:</b>	< 1 EU/µg		
<b>Biological Activity:</b>	ED <sub>50</sub> is < 0.5 µg/ml , determined by its ability to inhibit IGF-I induced proliferation of MCF -7, in the presence of 6 ng/ml of human IGF-I.		
<b>Amino Acid Sequence:</b>	MAPWQCAPCS AEKLALCPPV SASCSEVTRS AGCGCCPMCA LPLGAACGVA TARCARGLSC RALPGEQQPL HALTRGQGAC VQESDASAPH AAEAGSPESP ESTEITEEEL LDNFHLMAPS EEDHSILWDA ISTYDGSKAL HVTNIKKWKE PCRIELYRVV ESLAKAQETS GEEISKFYLP NCNKNGFYHS RQCETSMDGE AGLCWCVYPW NGKRIPGSPE IRGDPNCQIY FNVQN		
<b>Reconstitution:</b>	<b>Centrifuge vial prior to opening.</b> Add PBS or medium to the vial to fully solubilize the protein to a concentration ≥ 100 µg/ml. For extended storage, it is recommended to further dilute in a buffer containing a carrier protein such as 0.1% BSA and store in working aliquots at -20°C to -80°C.		
<b>Storage &amp; Stability:</b>	Lyophilized protein is stable for 1 year at -20°C to -80°C. Store reconstituted protein in working aliquots at -20°C to -80°C. <b>Avoid repeated freeze-thaw cycles.</b>		

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