

IGFBP1

Recombinant Human Insulin-Like Growth Factor Binding Protein 1

Catalog No.	CRI232A	Quantity:	10 µg
	CRI232B		25 µg
	CRI232C		1.0 mg
	CRI232D		100 µg

Alternate Names: AFBP, IBP1, IGF-BP25, PP12

Gene ID: 3484

Protein Accession No: P08833

Description: Human IGFBP1 is a 25.4 kDa cysteine rich polypeptide expressed in liver, decidual, and kidneys and is the most abundant IGFBP in amniotic fluid. Levels of IGFBP1 in serum are lowest after food. IGFBP1 binds both IGF1 and IGF2 with equal affinity. Phosphorylated IGFBP1 hinders IGF actions, whereas non-phosphorylated IGFBP1 is stimulatory.

Recombinant human IGF-BP1 is a single, glycosylated protein consisting of 255 amino acid residues with an N-terminal His-tag.

Source: NSO cells

Molecular Weight: 27.57 kDa

Formulation: Lyophilized from a sterile filtered solution with no additives

Purity: > 98% as determined by SDS-PAGE and HPLC analyses

Endotoxin Level: < 0.1 ng/µg

Biological Activity: Determined by its ability to inhibit IGF1 induced proliferation of NUC-1 cells. The ED₅₀ is ~100 ng/ml.

Amino Acid Sequence: MGSSHHHHHH SSGLVPRGSH MAPWQCAPCS AEKLALCPPV SASCSEVTRS
AGCGCCPMCA LPLGAACGVA TARCARGLSC RALPGEQQPL HALTRGQGAC
VQESDASAPH AAEAGSPESP ESTEITEEEL LDNFHLMAPS EEDHSILWDA
ISTYDGSKAL HVTNIKKWKE PCRIELRVV ESLAKAQETS GEEISKFYLP
NCNKNGFYHS RQCETSMDGE AGLCWCVYPW NGKRIPGSPE IRGDPNCQIY FNVQN

Reconstitution: **Centrifuge vial prior to opening.** First add sterile distilled water to the vial to fully solubilize the protein to a concentration of 0.1-1.0 mg/ml. After complete solubilization of the protein, it can be further diluted to other aqueous solutions.

Storage & Stability: Store lyophilized protein below 0°C. Reconstituted protein is stable for 1 week at 2-4°C. For long term storage, aliquot and store at -20°C. **Avoid repeated freeze-thaw cycles.**

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