

Recombinant Human IGF-BP3

CATALOG #:	4720-25	25 µg
	4720-100	100 µg
	4720-1000	1 mg
LOT #:		
SOURCE:	<i>E. coli</i>	
PURITY:	>98% by SDS-PAGE and HPLC analyses Endotoxin level is <0.1 ng per µg of IGF-BP3.	
MOL. WEIGHT:	28.8 kDa	
FORM:	Sterile filtered and lyophilized from 20 mM HCl	

RECONSTITUTION:

Centrifuge the vial prior to opening. Reconstitute in water to a concentration of 0.1-1.0 mg/ml. The solution can then be diluted into other aqueous buffers and store at 4°C for 1 week or – 20°C for future use.

STORAGE CONDITIONS:

The lyophilized IGF-BP3 is best-stored desiccated below 0°C. Reconstituted IGF-BP3 should be stored at working aliquots at -20°C. Avoid freeze/thaw cycles.

DESCRIPTION:

Human IGF-BP3, also known as growth-hormone-dependant binding protein, is a 28.9 kDa cysteine-rich secreted protein. It is the major IGF binding protein present in the plasma of human and animals. In addition to its ability to modulate the activity of IGF-I and IGF-2, IGF-BP3 also exerts inhibitory effects on follicle stimulating hormone (FSH) activity. Decreased plasma levels of IGF-BP3 often results in dwarfism, whereas elevated levels of IGF-BP3 may lead to acromegaly. The expression of IGF-BP3 in fibroblasts is stimulated by mitogenic growth factors such as Bombesin, Vasopressin, PDGF, and EGF. Recombinant human IGF-BP3 is a 28.8 kDa protein consisting of 264 amino acid residues.

BIOLOGICAL ACTIVITY:

The ED₅₀ as determined by its ability to inhibit IGF-II induced proliferation of MCF-7 is <0.2 µg/ml, in the presence of 15 ng/ml of human IGF-II.

FOR RESEARCH USE ONLY! Not to be used on humans.

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