

IGF-BP2, human recombinant

CATALOG #:	7165-10	10 µg
	7165-50	50 µg
ALTERNATE NAMES:	IBP-2	
SOURCE:	(BTI-Tn-5B1-4) Hi-5 Insect cells	
PURITY:	≥ 98% by SDS-PAGE gel and HPLC analyses	
MOL. WEIGHT:	31.5 kDa	
ENDOTOXIN LEVEL:	< 0.1 ng/µg of protein (<1EU/µg).	
FORM:	Lyophilized	
FORMULATION:	Sterile filtered through a 0.2 micron filter. Lyophilized from 1 x PBS, pH 7.2.	
STORAGE CONDITIONS:	Store at -20°C. After reconstitution, aliquot and store at -20°C to -80°C. Avoid repeated freezing and thawing cycles.	

RECONSTITUTION:

Centrifuge the vial prior to opening. Reconstitute in water to a concentration of 0.1-1.0 mg/ml. Do not vortex. This solution can be stored at 2-8°C for up to 1 week. For extended storage, it is recommended to further dilute in a buffer containing a carrier protein (example 0.1% BSA) and store in working aliquots at -20°C to -80°C.

DESCRIPTION:

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-BP2 is a cysteine-rich secreted protein produced by bone cells, and is most abundant in the brain. IGF-BP2 has been shown to inhibit IGF-II action in human breast and ovarian carcinoma cells. Recombinant human IGF-BP2 is a 31.5 kDa protein consisting of 289 amino acid residues including the IGF-BP domain and thyroglobulin type-I domain.

BIOLOGICAL ACTIVITY:

Determined by its ability to inhibit IGF-I induced proliferation of FDC-P1 cells.

AMINO ACID SEQUENCE:

EVLFRCPPT PERLAACGPP PVAPPAVAAA VAGGARMPCA ELVREPGCGC
CSVCARLEGE ACQVYTPRCG QGLRCYPHPG SELPLQALVM GEGTCEKRRD
AEYGASPEQV ADNGDDHSEG GLVENHVDST MNMLGGGSSA GRKPLKSGMK
ELAVFREKVT EQHRQMGKGG KHHLGLEEPK KLRPPPARTP CQQELDQVLE
RISTMRLPDE RGPLEHLYSL HIPNCDKHGL YNLKQCKMSL NGQRGECWCV
NPNTGKLIQG APTIRGDPEC HLFYNEQQEA RGVHTQRMQ

RELATED PRODUCTS:

- IGF-BP4, human recombinant (Cat # 7166-10, -50)
- IGF-BP7, human recombinant (Cat # 7167-10, -50)
- IGF-BP1, human recombinant (Cat # 4717-10, -25, -100, -1000)
- IGF-BP3, human recombinant (Cat # 4720-25, -100, -1000)
- IGF-BP5, human recombinant (Cat # 4723-25, -100, -1000)
- IGF-BP1 Antibody (Cat # 5717-100)
- IGF-BP3 Antibody (Cat # 5720-100)
- IGF-BP5 Antibody (Cat # 5723-100)

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