

## PRODUCT DATA SHEET



Bioworld Technology, Inc.

### Recombinant Human IGF-BP3 ( rHuIGF-BP3 )

Catalog Number: PR1044

Source: Escherichia coli.

Quantity: 5µg/25µg/1.0mg

#### Description

IGF-BP3 is a 30 kDa cysteine-rich secreted protein. It is the major IGF binding protein present in the plasma of human and animals and it is also found in  $\alpha$ -granules of platelets. In addition to its ability to modulate the activity of IGF-I and IGF-II, IGF-BP3 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.

#### Molecular Weight:

28.8 kDa protein consisting of 264 amino acid residues..

#### Purity:

>98% by SDS-PAGE and HPLC analyses.

#### Biological Activity:

The ED50 was determined by its ability to inhibit IGF-II induced proliferation of MCF-7. The expected ED50 for this effect is  $\leq 0.2 \mu\text{g/ml}$  in presence of 15 ng/ml of human IGF-II, corresponding to a Specific Activity of  $\square 5000 \text{ IU/mg}$ .

#### Physical Appearance:

Sterile Filtered White lyophilized (freeze-dried) powder.

#### Formulation:

Lyophilized from a 0.2mm filtered concentrated solution in PBS, pH 7.4.

#### AA Sequence:

G A S S G G L G P V V R C E P C D A R A L A Q C A P P  
P A V C A E L V R E P G C G C C L T C A L S E G Q P C  
G I Y T E R C G S G L R C Q P S P D E A R P L Q A L L

D G R G L C V N A S A V S R L R A Y L L P A P P A P G  
N A S E S E E D R S A G E V E S P S V S S T H R V S D P  
K F H P L H S K I I I K K G H A K D S Q R Y K V D Y E  
S Q S T D T Q N F S S E S K R E T E Y G P C R R E M E  
D T L N H L K F L N V L S P R G V H I P N C D K K G F  
Y K K K Q C R P S K G R K R G F C W C V D K Y G Q P  
L P G Y T T K G K E D V H C Y S M Q S K

#### Endotoxin:

Less than 1EU/mg of rHuIGF-BP3 as determined by LAL method.

#### Reconstitution:

We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute in sterile distilled water or aqueous buffer containing 0.1% BSA to a concentration of 0.1-1.0 mg/mL. Stock solutions should be apportioned into working aliquots and stored at  $< -20^\circ\text{C}$ . Further dilutions should be made in appropriate buffered solutions.

#### Storage:

This lyophilized preparation is stable at  $2-8^\circ\text{C}$ , but should be kept at  $-20^\circ\text{C}$  for long term storage, preferably desiccated. Upon reconstitution, the preparation is stable for up to one week at  $2-8^\circ\text{C}$ . For maximal stability, apportion the reconstituted preparation into working aliquots and store at  $-20^\circ\text{C}$  to  $-70^\circ\text{C}$ . Avoid repeated freeze/thaw cycles.

#### Usage:

This material is offered by USA Bioworld biotech for research, laboratory or further evaluation purposes. NOT FOR HUMAN USE. Made in China

MADE IN CHINA

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