

## PRODUCT DATA SHEET



Bioworld Technology, Inc.

### Recombinant Human Betacellulin (rHuBTC)

Catalog Number: PR1006

Source: Escherichia coli.

Quantity: 5µg/20µg/1.0mg

#### Description

Betacellulin (BTC) is a member of the EGF family of cytokines that also includes EGF, TGF- $\alpha$ , Amphiregulin, HB-EGF, Epiregulin, Tomoregulin and the Neuregulins. At the amino acid sequence level, human mature BTC protein exhibits 80% identity with mouse BTC protein. BTC is expressed in most tissues including kidney, uterus, liver and pancreas. It is also present in body fluids, including serum, milk, and colostrum.

#### Molecular Weight:

Recombinant human Betacellulin is a 9.0 kDa monomeric protein, containing 80 amino residues, which comprises the mature EGF homologous portion of the Betacellulin protein.

#### Purity:

>98% by SDS-PAGE and HPLC analyses.

#### Biological Activity:

The ED50 was determined by the dose-dependent stimulation of the proliferation of murine Balb/3T3 cells is  $\leq 0.05$  ng/ml, corresponding to a specific activity of  $\geq 2 \times 10^7$  units/mg.

#### Physical Appearance:

Sterile Filtered White lyophilized (freeze-dried) powder.

#### Formulation:

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

#### AA Sequence:

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

#### Endotoxin:

Less than 1EU/µg of rHuBetacellulin 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  $\leq -20^\circ\text{C}$ . Further dilutions should be made in appropriate buffered solutions.

#### Storage:

This lyophilized preparation is stable at 2-8°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°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

#### Bioworld Technology, Inc.

1660 South Highway 100, Suite 500 St. Louis Park, MN

55416, USA.

Tel: 6123263284

Email: [info@bioworld.com](mailto:info@bioworld.com)

Fax: 6122933841

#### Bioworld technology, co, Ltd.

No 9, weidi road Qixia District Nanjing, 210046, P, R.China.

Tel: 0086-025-86371664

Email: [info@biogot.com](mailto:info@biogot.com)

Fax: 0086-025-86213570