

# Recombinant Human BTC

<b>CATALOG #:</b>	4876-20	20 µg
	4876-1000	1 mg
<b>LOT #:</b>	_____	
<b>SOURCE:</b>	<i>E. coli</i>	
<b>PURITY:</b>	> 97 % by SDS-PAGE and RP-HPLC analyses	
<b>FORM:</b>	Lyophilized after extensive dialysis against 20 mM phosphate buffer, pH 7.4.	

## RECONSTITUTION:

Centrifuge the vial prior to opening. Reconstitute in sterile ddH<sub>2</sub>O to a concentration ≥ 100 µg/ml. This solution can then be diluted into other aqueous buffers.

## STORAGE CONDITIONS:

The lyophilized protein is best-stored desiccated at -20°C. Reconstituted human BTC should be stored at 4°C for 2-7 days and at -20°C for future use. For long term storage it is recommended to add a carrier protein (0.1 % HSA or BSA) and store as working aliquots at -20°C.

## DESCRIPTION:

Human Betacellulin (BTC) is a potent mitogen for retinal pigment epithelial cells and vascular smooth muscle cells. The effects of betacellulin are probably mediated by the egf receptor and other related receptors. Human Recombinant BTC produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 80 amino acids and having a molecular mass of 9 kDa. BTC was purified by proprietary chromatographic techniques.

## AMINO ACID SEQUENCE:

DGNSTRSPETNGLLCGDPENCAATTTQSKRKGHFSRCPKQYKHYCIKGRCRFVVA  
EQTPSCVCDEGYIGARCERVDLFY

## BIOLOGICAL ACTIVITY:

The ED<sub>50</sub>, calculated by the dose-dependant proliferation of murine BALB/C 3T3 cells (measured by <sup>3</sup>H-thymidine uptake) is < 0.05 ng/ml; corresponding to a Specific Activity of > 2.0 x10<sup>7</sup> IU/mg.

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

## RELATED PRODUCTS:

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- Caspase Assay Kits & Reagents
- Mitochondrial Apoptosis Kits & Reagents
- Nuclear Apoptosis Kits & Reagents
- Apoptosis Inducers and Set
- Apoptosis siRNA Vectors

### Cell Fractionation System

- Mitochondria/Cytosol Fractionation Kit
- Nuclear/Cytosol Fractionation Kit
- Membrane Protein Extraction Kit
- Cytosol/Particulate Rapid Separation Kit
- Mammalian Cell Extraction Kit
- FractionPREP Fractionation System

### Cell Proliferation & Senescence

- Quick Cell Proliferation Assay Kit
- Senescence Detection Kit
- High Throughput Apoptosis/Cell Viability Assay Kits
- LDH-Cytotoxicity Assay Kit
- Bioluminescence Cytotoxicity Assay Kit
- Live/Dead Cell Staining Kit

### Cell Damage & Repair

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- HAT Colorimetric Assay Kit & Reagents
- DNA Damage Quantification Kit
- Glutathione & Nitric Oxide Fluorometric & Colorimetric Assay Kits

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- Akt & JNK Activity Assay Kits
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- CETP Activity Assay & Drug Discovery Kits
- PLTP Activity Assay & Drug Discovery Kits
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- Cloning Insert Quick Screening Kit
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- 5 Minutes DNA Ligation Kit
- 20 Minutes Gel Staining/Destaining Kit
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