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Datasheet for ABIN7536289

## Betacellulin Protein (BTC) (Fc Tag)

### Overview

Quantity:	100 µg
Target:	Betacellulin (BTC)
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This Betacellulin protein is labelled with Fc Tag.

### Product Details

Purpose:	Recombinant Human Betacellulin/BTC Protein
Sequence:	DGNSTRSPET NGLLCGDPEE NCAATTTQSK RKGHFSRCPK QYKHYCIKGR CRFVVAEQTP SCVCDEGYIG ARCERVDLFY
Specificity:	Asp32-Tyr111
Purity:	> 92 % by SDS-PAGE.
Sterility:	0.22 µm filtered
Endotoxin Level:	<0.1EU/µg

### Target Details

Target:	Betacellulin (BTC)
Alternative Name:	Betacellulin/BTC ( <a href="#">BTC Products</a> )
Background:	Description: Betacellulin(BTC) is a member of the epidermal growth factor (EGF) family. These

## Target Details

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soluble proteins are ligands for one or more of the four receptor tyrosine kinases encoded by the ErbB gene family (ErbB-1/epidermal growth factor receptor (EGFR), neu/ErbB-2/HER2, ErbB-3/HER3 and ErbB-4/HER4). Betacellulin is a 32-kilodalton glycoprotein that appears to be processed from a larger transmembrane precursor by proteolytic cleavage. This protein is a ligand for the EGF receptor. BTC is a polymer of about 62-111 amino acid residues. Secondary Structure: 6 % helical (1 helices, 3 residues)36 % beta sheet (5 strands, 18 residues). BTC was originally identified as a growth-promoting factor in mouse pancreatic  $\beta$ -cell carcinoma cell line and has since been identified in humans. It plays a role in the growth and development of the neonate and/or mammary gland function. Betacellulin is a potent mitogen for retinal pigment epithelial cells and vascular smooth muscle cells.

Name: BTC,Betacellulin

Gene ID:	685
UniProt:	<a href="#">P35070</a>
Pathways:	<a href="#">RTK Signaling</a> , <a href="#">Fc-epsilon Receptor Signaling Pathway</a> , <a href="#">EGFR Signaling Pathway</a> , <a href="#">Neurotrophin Signaling Pathway</a>

## Application Details

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Restrictions: For Research Use only

## Handling

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Format:	Lyophilized
Reconstitution:	Centrifuge the vial before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stabilizer (e.g. 0.1 % BSA, 5 % HSA, 10 % FBS or 5 % Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.
Concentration:	0.8 mg/mL
Buffer:	Lyophilized from a 0.22 $\mu$ m filtered solution of PBS, pH 7.4.
Storage:	-20 °C,-80 °C
Storage Comment:	Store the lyophilized protein at -20°C to -80°C for 12 months. After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week.