

Datasheet for ABIN7596212

**Betacellulin/BTC Protein (AA 32-111) (Active) protein (His tag)**[Go to Product page](#)

## Overview

Quantity:	250 µg
Target:	Betacellulin/BTC Protein
Protein Characteristics:	AA 32-111
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	His tag
Application:	Activity Assay (AcA), SDS-PAGE (SDS)

## Product Details

Sequence:	DGNSTRSPET NGLLCGDPEE NCAATTTQSK RKGHFSRCPK QYKHICYIKGR CRFVVAEQTP SCVCDEGYIG ARCERVDLFY
Purity:	> 95% by SDS - PAGE
Endotoxin Level:	< 1 EU per 1 µg of protein (determined by LAL method)
Biological Activity Comment:	Measured in a cell proliferation assay using Balb/3T3 mouse embryonic fibroblast cells. The ED50 range ≤ 0.5 ng/ml.

## Target Details

Target:	Betacellulin/BTC Protein
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## Target Details

**Background:** BTC, also known as Betacellulin, is a member of epidermal growth factor receptor family and functions as a ligand for the epidermal growth factor receptor (EGFR). As the role a EGFR, betacellulin is manifested by different form of muscles and tissues, it also has a great effect of nitrogen that is used for retinal pigment epithelial cells and vascular smooth muscle cells. While many studies attest a role for betacellulin in the differentiation of pancreatic  $\beta$ -cells, the last decade witnessed the association of betacellulin with many additional biological processes, ranging from reproduction to the control of neural stem cells. As a typical EGFR ligand, betacellulin is expressed by a variety of cell types and tissues, and the soluble growth factor is proteolytically cleaved from a larger membrane-anchored precursor. It stimulates the proliferation of retinal pigment epithelial and vascular smooth muscle cells but did not stimulate the growth of several other cell types, such as endothelial cells and fetal lung fibroblasts. Recombinant human Betacellulin, fused to His-tag at C-terminus, was expressed in HEK293 cell and purified by using conventional chromatography techniques.

**Molecular Weight:** 9.8kDa (86aa)

**NCBI Accession:** [NP\\_001720](#)

## Application Details

**Application Notes:** Optimal working dilution should be determined by the investigator.

**Restrictions:** For Research Use only

## Handling

**Format:** Liquid

**Concentration:** 0.25 mg/mL

**Storage:** 4 °C,-20 °C,-80 °C

**Storage Comment:** Can be stored at +2°C to +8°C for 1 week. For long term storage, aliquot and store at -20°C to -80°C. Avoid repeated freezing and thawing cycles.