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## Datasheet for ABIN935244 **Betacellulin Protein (BTC)**

### Overview

Quantity:	20 µg
Target:	Betacellulin (BTC)
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Biological Activity:	Active

### Product Details

Sequence:	DGNSTRSPET NGLLCGDPEE NCAATTTQSK RKGHFSRCPK QYKHYCIKGR CRFVVAEQTP SCVCDEGYIG ARCERVDLFY
Characteristics:	Purified recombinant Human Betacellulin protein Expression System: E.coli Bioactivity: The ED50 was determined by the dose-dependent stimulation of the proliferation of Mouse Balb/3T3 cells is ? 0.05 ng/mL, corresponding to a specific activity of ? 2 x 10 <sup>7</sup> units/mg.
Purity:	> 98 % pure
Endotoxin Level:	< 0.1 ng per µg (1 EU/µg).

### Target Details

Target:	Betacellulin (BTC)
Alternative Name:	Betacellulin ( <a href="#">BTC Products</a> )

## Target Details

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**Background:** Betacellulin is an EGF-related polypeptide growth factor that signals through the EGF receptor. It is produced in several tissues, including the pancreas, small intestine, and in certain tumor cells. Betacellulin is a potent mitogen for retinal pigment epithelial cells and vascular smooth muscle cells. Human Betacellulin is initially synthesized as a glycosylated 32.0 kDa transmembrane precursor protein, which is processed by proteolytic cleavage to produce the mature sequence. 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.

Alternative Names: BTC protein, beta Cellulin protein

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**Molecular Weight:** 9 kDa

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**Pathways:** [RTK Signaling](#), [Fc-epsilon Receptor Signaling Pathway](#), [EGFR Signaling Pathway](#), [Neurotrophin Signaling Pathway](#)

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## Application Details

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**Application Notes:** Each Investigator should determine their own optimal working dilution for specific applications.

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**Restrictions:** For Research Use only

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## Handling

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**Format:** Lyophilized

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**Buffer:** Supplied as a lyophilized powder.

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**Handling Advice:** Avoid repeated freeze/thaw cycles.

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**Storage:** 4 °C/-20 °C

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**Storage Comment:** Store at 4 °C until reconstitution. Following reconstitution aliquot and freeze at -20 °C for long term storage.

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