

BTC
Catalog # PVGS1435

Specification

BTC - Product Information

Primary Accession [Q05928](#)
Species
Mouse

Sequence

MDGNTTTRTPE TNGSLCGAPG ENCTGTTPRQ KVKTHFSRCP KQYKHYCIHG RCRFVVDEQT PSCICEKGYF
GARCERVDLF Y

Purity

> 95% by SDS-PAGE analysis.

Endotoxin Level

< 0.2 EU/ µg, determined by LAL method.

Formulation

**Lyophilized after extensive dialysis against
50mM Tris, 300mM NaCl, pH9.0.**

Reconstitution

Reconstituted in ddH₂O at 100 µg/mL.

BTC - Additional Information

Gene ID 12223

Other Names

Probetacellulin, Betacellulin, BTC, Btc, Bcn

Target Background

Betacellulin is a pleiotropic cytokine that belongs to the Epidermal Growth Factor (EGF) family. Like other members of the EGF family, Betacellulin possesses a conserved sequence of 35-40 amino acids which contain 3 disulfide bonds formed by 6 cysteines. Betacellulin is unique in the EGF family since it can bind and activate a broad spectrum of ErbB receptors. Functionally, Betacellulin plays a role in the development of the pancreas by activating signaling pathways beneficial for the function, survival and regeneration of pancreatic β-cells. Additionally, Betacellulin has potential angiogenic activities and is important for the growth, development and repair of certain tissues. Recombinant **mouse Betacellulin (rmBetacellulin)** produced in *E. coli* is a single non-glycosylated polypeptide chain containing 81 amino acids. A fully biologically active molecule, rmBetacellulin has a molecular mass of 9.2 kDa analyzed by reducing SDS-PAGE and is obtained by proprietary chromatographic techniques at .

BTC - Protein Information

Name Btc

Synonyms Bcn**Function**

Growth factor that binds to EGFR, ERBB4 and other EGF receptor family members. Potent mitogen for retinal pigment epithelial cells and vascular smooth muscle cells.

Cellular Location

[Betacellulin]: Secreted, extracellular space.

Tissue Location

Found in several mouse tissues including kidney, uterus and liver, as well as in beta tumor cell line and MCF-7 cells It is not detected in the brain

BTC - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

BTC - Images