

BTC

Catalog # PVGS1435

Product Information

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| Primary Accession | Q05928 |
| Species | Mouse |
| Sequence | MDGNTTRTPE TNGSLCGAPG ENCTGTTPRQ KVKTHFSRCP KQYKHYCIHG RCRFVDEQT PSCICEKGYF GARCERVDLF Y |
| Purity | > 95% by SDS-PAGE analysis. |
| Endotoxin Level | |
| Formulation | Lyophilized after extensive dialysis against 50mM Tris, 300mM NaCl, pH9.0. |
| Reconstitution | Reconstituted in ddH ₂ O at 100 µg/mL. |

Additional Information

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| Gene ID | 12223 |
| Other Names | Probetacellulin, Betacellulin, BTC, Btc, Bcn |
| Target Background | <p>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.</p> <p>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 .</p> |

Protein Information

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|-----------------|---|
| 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

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