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BTC

Catalog # PVGS1435

Product Information

Primary Accession	Q05928
Species	Mouse
Sequence	MDGNTTRTPE TNGSLCGAPG ENCTGTTPRQ KVKTHFSRCP KQYKHYCIHG RCRFVVDEQT 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_2O at 100 □g/mL.

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 .

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

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.