

Active Recombinant Mouse Btc Protein (81 aa)

Cat. No. Btc-438B **Lot. No.** (See product label)

SPECIFICATION

Product Overview	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.
Species	Mouse
Source	E.coli
ProteinLength	81
Description	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.
Form	Sterile Filtered White lyophilized (freeze-dried) powder.
Bio-activity	ED50 < 0.5 ng/mL, measured by a cell proliferation assay using 3T3 cells, corresponding to a specific activity of $>2 \times 10^6$ units/mg.

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Molecular Mass	9.2 kDa, observed by reducing SDS-PAGE.
AA Sequence	MDGNTRTPETNGSLCGAPGENCTGTTPRQKVKTHFSRCPKQYKHYCIHGRCRFV VDEQTPSCICEKGYFGARCERVDLFY
Endotoxin	< 0.2 EU/μg, determined by LAL method.
Purity	> 95% by SDS-PAGE analysis.
Storage	Lyophilized recombinant mouse Betacellulin (rmBetacellulin) remains stable up to 6 months at -80 centigrade from date of receipt. Upon reconstitution, rmBetacellulin remains stable up to 2 weeks at 4 centigrade or up to 3 months at -20 centigrade.
Storage Buffer	Lyophilized after extensive dialysis against 50mM Tris, 300mM NaCl, pH9.0.
Reconstitution	Reconstituted in ddH ₂ O at 100 μg/mL.

GENE INFORMATION

Gene Name	Btc betacellulin, epidermal growth factor family member [<i>Mus musculus</i>]
Official Symbol	Btc
Synonyms	BTC; betacellulin, epidermal growth factor family member; betacellulin; probetacellulin; Bcn;
Gene ID	12223
mRNA Refseq	NM_007568
Protein Refseq	NP_031594

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UniProt ID

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