

Active Recombinant Mouse Btc Protein (81 aa)

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

SPECIFICATION

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| 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 | MDGNTRTRPETNGSLCGAPGENCTGTTTPRQKVKTHFSRCPKQYKHYCIHGRCRFV 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

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|------------------------|---|
| Gene Name | Btc betacellulin, epidermal growth factor family member [Mus musculus] |
| 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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