

Active Recombinant Mouse Btc Protein

Cat. No. Btc-193B **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Mouse Btc Protein without tag was expressed in HEK 293.
Species	Mouse
Source	HEK293
Description	Betacellulin, also known as BTC, belongs to the EGF family of growth factors. It is expressed in many tissues, such as kidney, pancreas and small intestine. Betacellulin is initially synthesized as a membrane-bound precursor containing multiple EGF-like domains in its extracellular region, and is released from the membrane by proteolytic cleavage. BTC is the ligand for EGFR/ErbB receptor tyrosine kinases, and plays a role in cell growth and differentiation. BTC has been reported to promote beta cell growth and differentiation in the pancreas. Pancreas-specific expression of this gene may induce islet neogenesis and remediate hyperglycemia in type I diabetes.
Form	Sterile Filtered White lyophilized (freeze-dried) powder.
Bio-activity	ED50 < 0.08 ng/mL, measured in a cell proliferation assay using 3T3 cells.
Molecular Mass	19-24 kDa, observed by reducing SDS-PAGE.
AA Sequence	DGNTTTRTPETNGSLCGAPGENCTGTTTPRQVKVTHFSRCPKQYKHYCIHGRCRFVV DEQTPSCICEKGYFGARCERVDLFY
Endotoxin	< 0.2 EU/μg, determined by LAL method.

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Purity	> 95% as analyzed by SDS-PAGE and HPLC.
Storage	Lyophilized recombinant murine Betacellulin remains stable up to 6 months at -80 centigrade from date of receipt. Upon reconstitution, Murine Betacellulin should be stable up to 1 week at 4 centigrade or up to 2 months at -20 centigrade.
Storage Buffer	Lyophilized after extensive dialysis against PBS.
Reconstitution	Reconstituted in ddH2O or PBS 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
UniProt ID	Q05928

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