

## Overview

<b>Synonyms</b>	BTC
<b>Description</b>	<b>Betacellulin</b> , 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.
<b>Accession No</b>	Q543J8
<b>Species</b>	Mouse
<b>Source</b>	HEK 293
<b>Biological Activity</b>	ED <sub>50</sub> <0.08ng/ml, measured in a cell proliferation assay using 3T3 cells.
<b>Sequence</b>	DGNTTRTPET NGSLCGAPGE NCTGTTPRQK VKTHFSRCPK QYKHYCIHGR CRFVVDEQTP SCICEKGYFG ARCERVDLFY

## Properties

<b>Measured Molecular Weight</b>	19-24 kDa, observed by reducing SDS-PAGE.
<b>Purity</b>	> 95% as analyzed by SDS-PAGE and HPLC.
<b>Formulation</b>	Lyophilized after extensive dialysis against PBS.
<b>Reconstitution</b>	Reconstituted in ddH <sub>2</sub> O or PBS at 100 µg/ml.
<b>Endotoxin Level</b>	< 0.2 EU/µg, determined by LAL method.
<b>Storage</b>	Lyophilized recombinant <b>murine Betacellulin</b> remains stable up to 6 months at lower than -70°C from date of receipt. Upon reconstitution, Murine Betacellulin should be stable up to 1 week at 4°C or up to 2 months at -20°C.
<b>Note</b>	For research use only

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