

DATASHEET
Version 20181206**Betacellulin, Mouse(HEK 293-expressed)****Cat. No.:** Z03162-10**Size:** 10.0 ug**Synonyms:** BTC**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.

Amino Acid Sequence:

00001 DGNTRTPET NGS LCGAPGE NCTGTTPRQK VKTHFSRCPK
00041 QYKHYCIHGR CRFVVDEQTP SCICEKGYFG ARCERVDLFY
00081

Source: HEK 293**Species:** Mouse**Biological Activity:** ED₅₀ <0.08ng/ml, measured in a cell proliferation assay using 3T3 cells.**Molecular Weight:** 19-24 kDa, observed by reducing SDS-PAGE.**Formulation:** Lyophilized after extensive dialysis against PBS.**Reconstitution:** Reconstituted in ddH₂O or PBS at 100 µg/ml.**Purity:** > 95% as analyzed by SDS-PAGE and HPLC.**Endotoxin Level:** < 0.2 EU/µg, determined by LAL method.**Storage:** Lyophilized recombinant murine Betacellulin 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.