PRODUCT DATA SHEET

Bioworld Technology,Inc.

Recombinant Betacellulin, Mouse(HEK 293-expressed)

Catalog Number: BK0299-10μg Source: HEK 293 Quantity: 10μg

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.

Molecular Weight:

19-24 kDa, observed by reducing SDS-PAGE.

Purity:

> 95% as analyzed by SDS-PAGE and HPLC.

Biological Activity:

ED50 <0.08ng/ml, measured in a cell proliferation assay using 3T3 cells.

Physical Appearance:

Sterile Filtered White lyophilized (freeze-dried) powder.

Formulation:

Lyophilized after extensive dialysis against PBS.

AA Sequence:

DGNTTRTPETNGSLCGAPGENC-TGTTPRQKVKTHFSRCPKQYKHY-CIHGRCRFVVDEQTPSCICEKGYFGARCER-VDLFY

Endotoxin:

< 0.2 EU/μg, determined by LAL method.

Reconstitution:

Reconstituted in ddH2O or PBS at 100 μg/ml.

Storage:

Lyophilized recombinant murine Betacellulin remains stable up to 6 months at -80℃ from date of receipt. Upon reconstitution, Murine Betacellulin should be stable up to 1 week at 4℃ or up to 2 months at -20℃.

Usage:

This material is offered by USA Bioworld biotech for research, laboratory or further evaluation purposes. For research use only.

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