Datasheet for ABIN2017693

Betacellulin Protein (BTC) (AA 32-111)

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Overview

Quantity:	50 µg
Target:	Betacellulin (BTC)
Protein Characteristics:	AA 32-111
Origin:	Mouse
Source:	HEK-293T Cells
Protein Type:	Recombinant
Biological Activity:	Active

Product Details

Characteristics:	ED50 <0.08 ng/mL, measured in a cell proliferation assay using 3T3 cells.
Purity:	> 95 % as analyzed by SDS-PAGE and HPLC.
Endotoxin Level:	< 0.2 EU/µg, determined by LAL method.

Target Details

Target:	Betacellulin (BTC)
Alternative Name:	Betacellulin (BTC Products)
Background:	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

Target Details

	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. Synonyms: BTC
Molecular Weight:	19-24 kDa, observed by reducing SDS-PAGE.
UniProt:	Q543J8
Pathways:	RTK Signaling, Fc-epsilon Receptor Signaling Pathway, EGFR Signaling Pathway, Neurotrophin Signaling Pathway

Application Details

Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	Reconstituted in ddH2O or PBS at 100 µg/mL.
Buffer:	Lyophilized after extensive dialysis against PBS.
Storage:	-80 °C
Storage Comment:	Lyophilized recombinant murine Betacellulin remains stable up to 6 months at -80°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.
Expiry Date:	6 months