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Datasheet for ABIN7519705

Betacellulin Protein (BTC) (Fc Tag)

Overview

Quantity:	10 µg
Target:	Betacellulin (BTC)
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This Betacellulin protein is labelled with Fc Tag.

Product Details

Purpose:	Recombinant Human Betacellulin/BTC Protein
Sequence:	DGNSTRSPET NGLLCGDPEE NCAATTTQSK RKGHFSPCK QYKHYCIKGR CRFVVAEQTP SCVCDEGYIG ARCERVDLFY
Specificity:	Asp32-Tyr111
Purity:	> 92 % by SDS-PAGE.
Sterility:	0.22 µm filtered
Endotoxin Level:	<0.1EU/µg

Target Details

Target:	Betacellulin (BTC)
Alternative Name:	Betacellulin/BTC (BTC Products)
Background:	Description: Betacellulin(BTC) is a member of the epidermal growth factor (EGF) family. These

Target Details

soluble proteins are ligands for one or more of the four receptor tyrosine kinases encoded by the ErbB gene family (ErbB-1/epidermal growth factor receptor (EGFR), neu/ErbB-2/HER2, ErbB-3/HER3 and ErbB-4/HER4). Betacellulin is a 32-kilodalton glycoprotein that appears to be processed from a larger transmembrane precursor by proteolytic cleavage. This protein is a ligand for the EGF receptor. BTC is a polymer of about 62-111 amino acid residues. Secondary Structure: 6 % helical (1 helices, 3 residues)36 % beta sheet (5 strands, 18 residues). BTC was originally identified as a growth-promoting factor in mouse pancreatic β -cell carcinoma cell line and has since been identified in humans. It plays a role in the growth and development of the neonate and/or mammary gland function. Betacellulin is a potent mitogen for retinal pigment epithelial cells and vascular smooth muscle cells.

Name: BTC,Betacellulin

Gene ID:	685
UniProt:	P35070
Pathways:	RTK Signaling , Fc-epsilon Receptor Signaling Pathway , EGFR Signaling Pathway , Neurotrophin Signaling Pathway

Application Details

Restrictions:	For Research Use only
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Handling

Format:	Lyophilized
Reconstitution:	Centrifuge the vial before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid votex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stablizer (e.g. 0.1 % BSA, 5 % HSA, 10 % FBS or 5 % Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.
Concentration:	0.8 mg/mL
Buffer:	Lyophilized from a 0.22 μ m filtered solution of PBS, pH 7.4.
Storage:	-20 $^{\circ}$ C,-80 $^{\circ}$ C
Storage Comment:	Store the lyophilized protein at -20 $^{\circ}$ C to -80 $^{\circ}$ C for 12 months. After reconstitution, the protein solution is stable at -20 $^{\circ}$ C for 3 months, at 2-8 $^{\circ}$ C for up to 1 week.