

Recombinant Mouse Betacellulin/BTC Protein (Trx Tag)

RPES8188



Product Information

Product SKU: RPES8188	Expression Host: E.coli	Size: 20µg
Tag: N-Trx	Reactivity: Mouse	Accession: Q05928

Additional Information

Calculated MW: 29.5 kDa	Observed MW: 35 kDa
Sequence: Asp32-Gln118	

Protein Information

Background: Betacellulin(Betacellulin/BTC) is a member of the epidermal growth factor (EGF) family. These 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. Betacellulin/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). Betacellulin/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.

Synonyms:	Bcn, Btc
Endotoxin:	< 10 EU/mg of the protein as determined by the LAL method
Formulation:	Lyophilized from a 0.2 µm filtered solution in PBS with 5% Trehalose and 5% Mannitol.
Purity:	> 90% as determined by reducing SDS-PAGE.
Bio-Activity:	Not validated for activity

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Storage:

Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.