

# Recombinant Human Betacellulin/BTC Protein (Sumo Tag)

RPES8103



## Product Information

|                              |                                |                          |
|------------------------------|--------------------------------|--------------------------|
| <b>Product SKU:</b> RPES8103 | <b>Expression Host:</b> E.coli | <b>Size:</b> 20µg        |
| <b>Tag:</b> N-Sumo           | <b>Reactivity:</b> Human       | <b>Accession:</b> P35070 |

## Additional Information

|                                |                            |
|--------------------------------|----------------------------|
| <b>Calculated MW:</b> 21.7 kDa | <b>Observed MW:</b> 32 kDa |
| <b>Sequence:</b> Asp32-Tyr111  |                            |

## 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  $\beta$ -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.

|                      |   |
|----------------------|---|
| <b>Synonyms:</b>     | BTC   |
| <b>Endotoxin:</b>    | < 10 EU/mg of the protein as determined by the LAL method                             |
| <b>Formulation:</b>  | Lyophilized from a 0.2 µm filtered solution in PBS with 5% Trehalose and 5% Mannitol. |
| <b>Purity:</b>       | > 90% as determined by reducing SDS-PAGE.   |
| <b>Bio-Activity:</b> | 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.