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Recombinant Mouse Betacellulin/BTC Protein(Trx Tag)

Catalog Number: PDEM100168

Note: Centrifuge before opening to ensure complete recovery of vial contents.

Description

Species Mouse

Source E.coli-derived Mouse Betacellulin/BTC protein Asp32-Gln118, with an N-terminal Trx

 Calculated MW
 29.5 kDa

 Observed MW
 35 kDa

 Accession
 Q05928

Bio-activity Not validated for activity

Properties

Purity > 90% as determined by reducing SDS-PAGE.

Endotoxin < 10 EU/mg of the protein as determined by the LAL method

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.

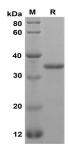
ShippingThis product is provided as lyophilized powder which is shipped with ice packs.FormulationLyophilized from a 0.2 μm filtered solution in PBS with 5% Trehalose and 5%

Mannitol.

Reconstitution It is recommended that sterile water be added to the vial to prepare a stock solution of

0.5 mg/mL. Concentration is measured by UV-Vis.

Data



SDS-PAGE analysis of Mouse Betacellulin/BTC proteins, 2 μ g/lane of Recombinant Mouse Betacellulin/BTC proteins was resolved with SDS-PAGE under reducing conditions, showing bands at 35 KD

Background

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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.